

## FINAL EXAMINATIONS

- Model Examinations of the School Book  
(2 models + model for the special needs students).
- 25 Schools' Examinations from Different Governorates.

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# Model Examinations of the School Book

## Model

1

**Answer the following questions :**

**1 Choose the correct answer :**

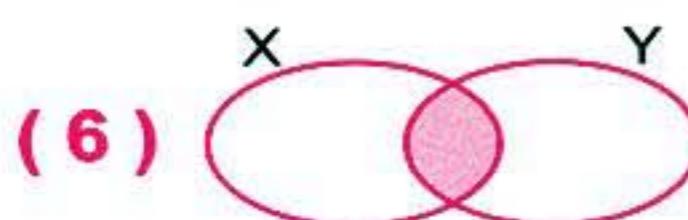
(1) The triangle whose measures of its angles are  $50^\circ$  ,  $90^\circ$  and  $40^\circ$  is ..... ( a acute-angled triangle or an obtuse-angled triangle or a right-angled triangle or otherwise )

(2)  $4 \frac{1}{8} \times 2 \frac{2}{3} = \dots$  ( 1 or 10 or 11 or 111 )

(3) If  $\{7, 10\} \subset \{10, x+4\}$  , then  $x = \dots$  ( 3 or 4 or 5 or 6 )

(4)  $3.75 \times 1000 = \dots$  ( 0.375 or 0.0375 or 3750 or 37.5 )

(5)  $\frac{1}{2} \square \frac{1}{3}$  ( $<$  or  $>$  or  $=$  or  $\leq$ )

(6)  The shaded part is .....  
 $(X \cap Y \text{ or } X \cup Y \text{ or } X - Y \text{ or } X \subset Y)$

(7)  $55.241 \times 100 \square 522.41 \times 10$  ( $<$  or  $>$  or  $=$  or  $\leq$ )

(8)  $\frac{2}{3} \times \dots = 1$  ( 1 or 2 or 3 or  $\frac{3}{2}$  )

(9) 43 day  $\approx \dots$  (to the nearest week) ( 4 or 6 or 5 or 7 )

(10) Any chord passing through the centre of a circle is called .....  
 ( a diameter or a radius or a side or otherwise )

(11)  $\{52\} \dots \{5, 2\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

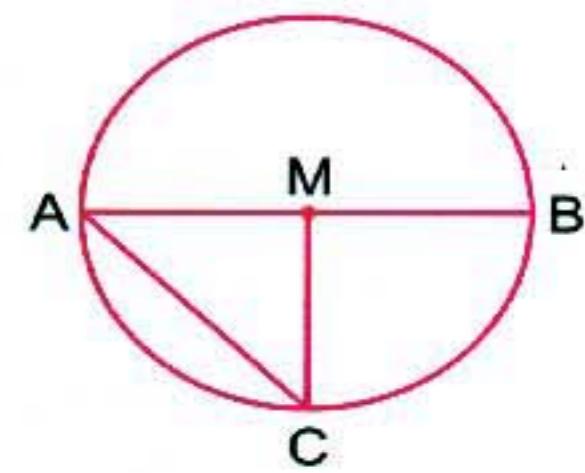
(12)  $12.3 \times \dots = 1230$  ( 10 or 100 or 1000 or 10000 )

(13)  $Y = \{2, 4, 6\} \cap \{1, 2, 3\}$  , then  $6 \dots Y$   
 $(\in \text{ or } \notin \text{ or } \subset \text{ or } \not\subset)$

(14)  $\frac{5}{8} \square 0.5734$  ( $<$  or  $>$  or  $=$  or  $\leq$ )

**2 Complete each of the following :****(15) In the opposite figure :**

**[a]  $MA = \dots = \dots$**

**[b] The longest chord in the circle is ..... .**

**(16)  $\frac{4}{12} \div \frac{6}{12} = \dots$**

**(17) The probability of the sure event = .....**

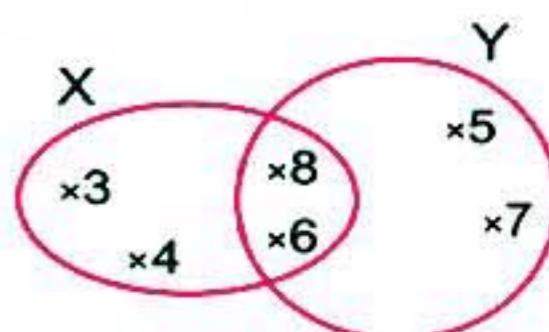
**(18) If  $\frac{x}{8} = \frac{15}{24}$ , then  $x = \dots$**

**(19) 2.4 decimetre = ..... cm.**

**(20)  $X \cap Y = \dots$**

**(21)  $65.384 - \dots = 65$**

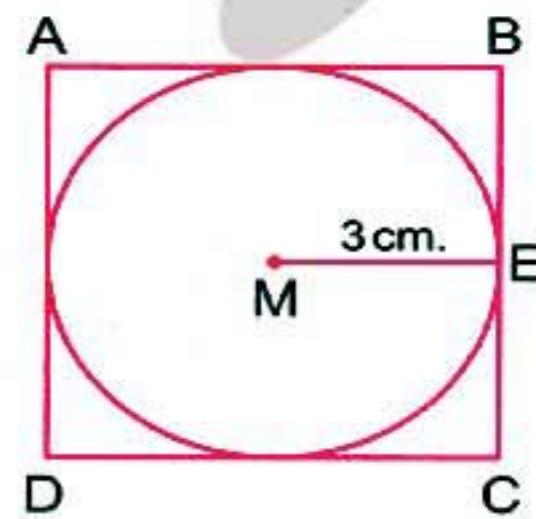
**(22)  $\frac{3}{25} \div \dots = \frac{25}{3}$**

**3 Answer the following :****(23) Draw the triangle ABC where** **$AB = 4 \text{ cm.}$ ,  $BC = 6 \text{ cm.}$  and  $CA = 8 \text{ cm.}$** **, then draw a circle its centre is B and its radius length is 4 cm.****(24) From the table , find the probability that a pupil plays basketball :**

Game	Football	Basketball	Handball
Number of pupils	50	40	10

**(25) Arrange in a descending order :**

**$5\frac{1}{2}, 6\frac{1}{4}, 5\frac{3}{4}$  and  $5\frac{2}{5}$**

**(26) In the opposite figure :****If  $ME = 3 \text{ cm.}$ ,****then calculate the perimeter  
of the square.**

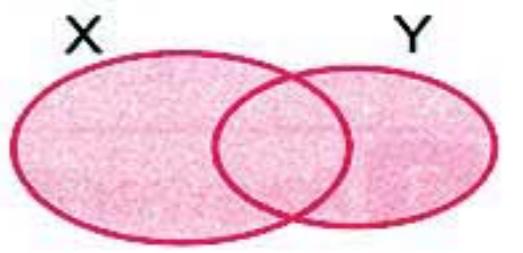
## Model 2

Answer the following questions :

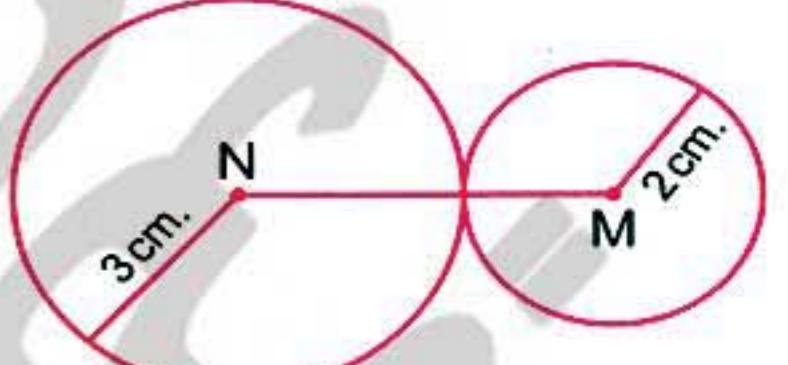
## 1 Choose the correct answer :

(1)  $3.36 \text{ km.} = \dots \text{ m.}$  ( 3.36 or 33.6 or 336 or 3360 )(2)  $9 \frac{3}{25} \approx \dots$  (to the nearest tenth) ( 0.9 or 9.2 or 9.1 or 9 )(3)  $\frac{5}{6} \div 1 \frac{1}{6} = \dots$  ( $\frac{5}{7}$  or  $\frac{2}{6}$  or  $\frac{3}{7}$  or  $\frac{7}{6}$ )(4)  $0.312 \times 100 \square 312 \div 100$  ( $>$  or  $<$  or  $=$  or  $\leq$ )

(5) The smallest number from the following is ..... ( 0.111 or 0.12 or 0.123 or 1.023 )

(6)  $10 \times 4.72 \square 100 \times 0.472$  ( $<$  or  $>$  or  $=$  or otherwise)(7)  $\frac{3}{5} \times 1.6 > 1.6 \times \dots$  ( 0.6 or 1.6 or  $\frac{5}{3}$  or 0.3 )(8) The shaded part represents .....  
(  $X \cap Y$  or  $X \cup Y$  or  $X - Y$  or  $Y - X$  )(9) If  $Y = \{2, 3, 5\} \cap \{1, 3, 5\}$ , then  $\{1, 2, 3, 5\} \dots Y$   
 ( $\subset$  or  $\not\subset$  or  $\in$  or  $\notin$ )

(10) In the opposite figure :

 $MN = \dots \text{ cm.}$   


( 2 or 3 or 6 or 5 )

(11) The length of the diameter of any circle  $\square$  the length of any chord in it does not pass through the centre  
 ( $>$  or  $<$  or  $=$  or  $\leq$ )(12) In any triangle the number of its heights = .....  
 ( 1 or 2 or 3 or 4 )(13) In a class there are 40 pupils , 25 of them are boys , the rest are girls , then the probability of the chosen pupil is a girl = .....  
 (  $\frac{3}{8}$  or  $\frac{5}{8}$  or  $\frac{3}{5}$  or 1 )

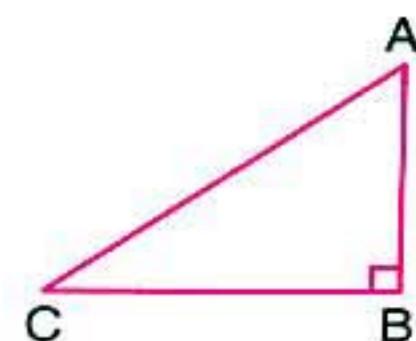
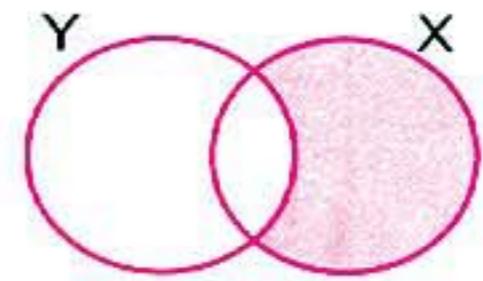
(14) When tossing a coin once , then the probability of appearing

a tail = .....

( 0 or 1 or  $\frac{1}{2}$  or 2 )**2 Complete each of the following :**(15) If the probability of a pupil succeed in an exam is  $\frac{8}{10}$  , then the probability of his fail = .....(16) If  $X \subset Y$  , then  $X \cap Y$  = .....

(17) In the opposite figure :

The corresponding height

of the base  $\overline{BC}$  is .....(18) The shaded part  
represents .....(19) A circle its radius length = 1 cm. ,  
then its diameter length = ..... cm.(20)  $4.6798 \approx \dots$  (to the nearest thousandth)(21)  $2\frac{1}{4} \times \dots = 1$ (22)  $3978 \div \dots = 3.978$ **3 Answer the following :**(23) If  $U = \{x : x \text{ is an odd number } < 15\}$  ,  $X = \{1, 3\}$  and  
 $Y = \{1, 5, 9, 13\}$  , draw a Venn diagram that represents the sets  
 $U$  ,  $X$  and  $Y$  , then find  $X \cap Y$ (24) Draw a circle M of radius length 2.5 cm. , then draw the diameter  $\overline{AB}$   
and the chord  $\overline{AC}$  of length 3 cm. Join  $\overline{BC}$  , then measure its length(25) A box contains identical balls where 5 balls are white , 9 red and  
6 black. If one ball is chosen randomly , what is the probability that  
the chosen ball is white ?

.....

(26) A rectangle , its length is 4.1 cm. and its width is 3.5 cm. ,  
calculate its area.

.....

## Model examination for the special needs students

Answer the following questions :

## 1 Choose the correct answer :

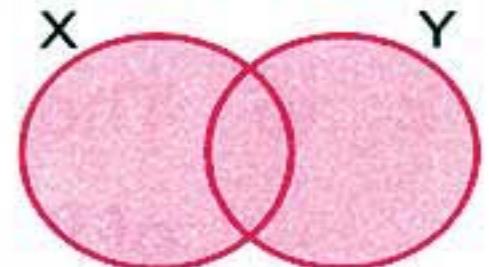
(1)  $\frac{1}{3} \times \frac{3}{4} = \dots$

(2) If  $3 \in \{x, 5\}$ , then  $x = \dots$

(3)  $312 \div 10 = \dots$

(3.12 or 0.312 or 31.2)

(4) The shaded part

is .....  
( $X \cup Y$  or  $X \cap Y$  or  $X - Y$ )

(5) A B  $\overline{AB}$  is called a .....  
(diameter or radius or side)

(6)  $14.4 \times 10 \square 144$

(7) In any triangle, there are ..... heights.

(1 or 2 or 3)

(8)  $\{5\} \dots \{5, 8\}$

(\subset or \notin or \not\subset)

(9) When tossing a coin once, the probability of appearing a tail = .....

(1 or  $\frac{1}{2}$  or  $\frac{1}{4}$ )

(10)  $\frac{1}{2} = \dots$

(5 or 0.5 or 0.05)

## 2 Use the following answers to complete the questions below :

( $\frac{1}{6}$ , 12.1, 2, 4.9, {1, 5})

(1)  $4.85 \approx \dots$  (to the nearest tenth)

(2) When tossing a die once, the probability of appearing the number 3 = .....

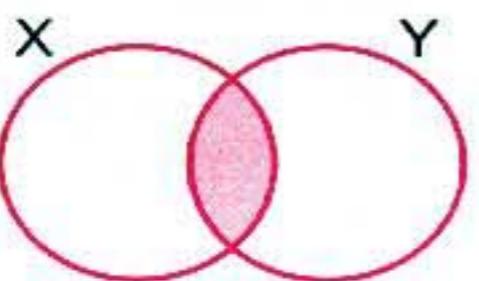
(3)  $48.4 \div 4 = \dots$

(4) A circle of diameter length = 4 cm., then its radius length = ..... cm.

(5) If  $X = \{1, 2, 5, 7\}$ ,  $Y = \{1, 5, 3\}$ , then  $X \cap Y = \dots$

## 3 Match :

**A**

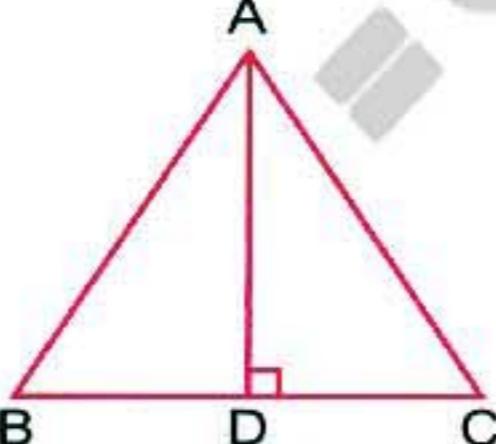
(1) 

The shaded part is .....

(2)  $\frac{1}{2}$    $\frac{1}{3}$

(3)  $4 \frac{25}{100} \approx \dots$   
(to the nearest tenth)

(4) The probability that Samir win a match is  $\frac{1}{2}$  , then the probability of loss = .....

(5) 

$\overline{AD}$  is called .....

**B**

>

$\frac{1}{2}$

$X \cap Y$

altitude

4.3

## Some Schools' Examinations From Different Governorates

## 1 Cairo Governorate

East Nasr City Educational Zone  
Manaret Heliopolis School

Answer the following questions :

## 1 Choose the correct answer :

(1)  $4.25 \times 100 = \dots$  (425 or 42.5 or 42500 or 4250)

(2) If  $4 \in \{2, x, 5\}$ , then  $x = \dots$  (2 or 4 or 5 or 6)

(3) The number of altitudes in the right-angled triangle is .....  
(1 or 2 or 3 or 4)

(4) The number  $83.7694 \approx 83.77$  to the nearest .....  
(0.1 or 0.01 or 0.001 or 0.0001)

(5) If  $\{7, 10\} \subset \{10, x + 4\}$ , then  $x = \dots$  (3 or 4 or 5 or 6)

(6)  $\frac{5}{6} \div 1\frac{1}{6} = \dots$  ( $\frac{5}{7}$  or  $\frac{2}{6}$  or  $\frac{3}{7}$  or  $\frac{7}{6}$ )

(7)  $\frac{1}{2} \boxed{\quad} \frac{1}{3}$  (< or > or = or otherwise)

(8) The reciprocal of  $3\frac{1}{2}$  ..... ( $\frac{7}{2}$  or  $\frac{2}{7}$  or  $3\frac{2}{1}$  or 8)

(9) If  $X \subset Y$ , then  $X \cap Y = \dots$  ( $X$  or  $Y$  or  $U$  or  $\emptyset$ )

(10)  $7 \dots \{77, 17\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(11)  $\emptyset \dots \{A, B\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(12) The longest chord in the circle is called a .....  
(diameter or chord or radius or centre)

(13)  $\frac{2}{3}$  of  $\frac{9}{10} = \dots$  ( $\frac{2}{3}$  or  $\frac{3}{5}$  or  $\frac{3}{8}$  or  $\frac{9}{3}$ )

(14) The smallest prime number is ..... (1 or 2 or 3 or 0)

## 2 Complete :

(15)  $71.5 \div \dots = 7.15$

(16)  $76.759 + 59.695 = \dots \approx \dots$  (to the nearest  $\frac{1}{10}$ )

(17) If  $\{3, 4\} \subset \{2, 3, a - 1\}$ , then  $a = \dots$

(18) The point of intersection of the three altitudes of the obtuse-angled triangle lies ..... the triangle.

(19) If  $\frac{3}{8} = \frac{a}{24}$ , then  $a = \dots$

(20) The line that joins between the centre of the circle and any point on the circle is called  $\dots$

(21) The probability of the impossible event is  $\dots$

(22) 3 days =  $\dots$  hours.

**3 Answer the following :**

(23) A box contains 5 red balls, 8 black balls and 7 white balls, one of them is drawn randomly, find the probability of drawing a ball which is :

[a] Black =  $\dots$

[b] Green =  $\dots$

[c] Red or black =  $\dots$

[d] Not red =  $\dots$

(24) From the opposite Venn diagram, find :

[a]  $X \cap Y = \dots$

[b]  $X \cup Y = \dots$

[c]  $X - Y = \dots$

[d]  $\bar{Y} = \dots$

(25) Find :

[a]  $6188 \div 221 = \dots$

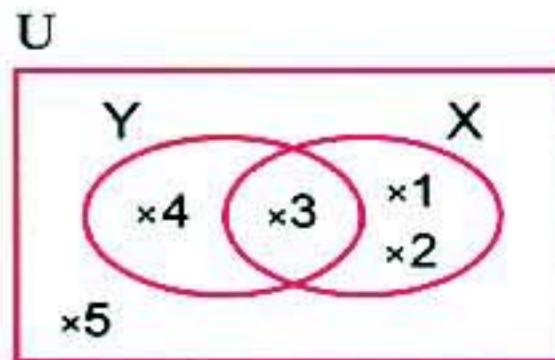
[b]  $2.1 \times 0.34 = \dots$

(26) Draw the triangle ABC in which

$AB = 7 \text{ cm.}$  and  $BC = AC = 6 \text{ cm.}$

, then draw  $\overline{CD} \perp \overline{AB}$

, then find its length.



**2 Cairo Governorate**

Rod El-Farag Educational Zone  
St. Mary's School



Answer the following questions :

**1 Choose the correct answer :**

(1) If  $6 \in \{3, 5, 2x\}$ , then  $x = \dots$  (2 or 3 or 4 or 5)

(2)  $\{7, 8\} \dots \{5, 7, 10\}$  ( $\in$  or  $\subset$  or  $\notin$  or  $\not\subset$ )

(3) In any triangle, the number of its heights =  $\dots$

(1 or 2 or 3 or 4)

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( 4 ) Any chord passing through the centre of a circle is called .....

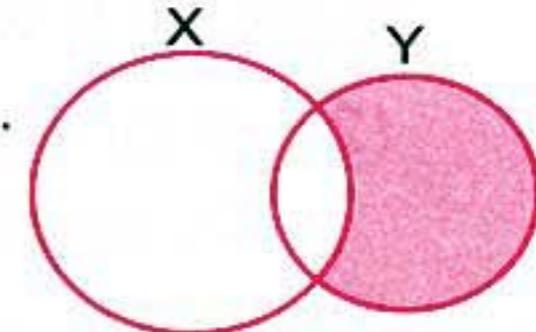
( a diameter or a radius or a chord or otherwise )

( 5 )  $\{52\}$  .....  $\{5, 2\}$  ( $\in$  or  $\subset$  or  $\notin$  or  $\not\subset$ )

( 6 )  $2 \frac{1}{3} \div \frac{5}{3} =$  ..... ( $\frac{7}{5}$  or  $\frac{5}{7}$  or  $\frac{3}{7}$  or  $\frac{5}{2}$ )

( 7 )  $9 \frac{3}{25} \approx$  ..... (to the nearest tenth) ( 0.9 or 9.2 or 9.11 or 9.1 )

( 8 ) The shaded part in the opposite figure represents .....



(  $X - Y$  or  $Y - X$  or  $X \cup Y$  or  $X \cap Y$  )

( 9 )  $4 \frac{1}{8} \times 2 \frac{2}{3} =$  ..... ( 1 or 10 or 11 or 111 )

( 10 )  $\frac{5}{8}$   0.5734 ( $>$  or  $=$  or  $<$  or  $\leq$ )

( 11 )  $55.241 \times 100$    $552.41 \times 10$  ( $>$  or  $=$  or  $<$  or otherwise )

( 12 )  $(2 \frac{1}{2} + 7 \frac{1}{2}) \div \frac{1}{5} =$  ..... ( 2 or 5 or 10 or 50 )

**2** Complete the following :

( 13 ) If  $X \subset Y$  , then  $X \cap Y =$  .....

( 14 )  $\{2, 3, 5\} \cap \{1, 3, 5\} =$  .....

( 15 )  $397.8 \div 23.4 =$  .....

( 16 )  $\frac{3}{25} \div 0.012 =$  .....

( 17 ) If the probability of a pupil succeed in an exam is  $\frac{8}{10}$  , then the probability of his fail is .....

( 18 ) The altitudes in obtuse-angled triangle intersect at the point that .....

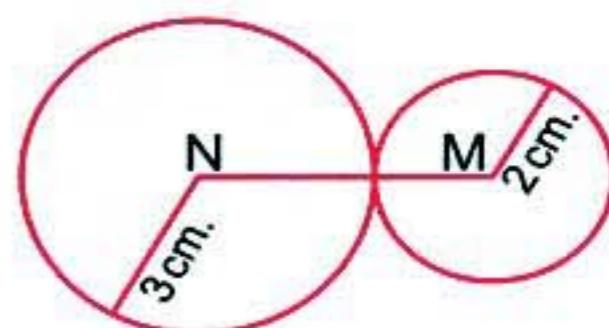
( 19 )  $(8.3 - 2.14) \times 100 =$  .....

( 20 ) If  $\{4, a, 7\} = \{b, 5, 7\}$  , then  $a =$  ..... and  $b =$  .....

( 21 )  $1.775 \times 0.15 \approx$  ..... (to the nearest hundredth)

( 22 ) In the opposite figure :

The length of  $MN =$  .....



**3 Answer the following :**

(23) A bag contains 4 white balls , 5 red balls and 6 black balls.

All balls are identical and equal in size. If a ball is drawn randomly.

What is the probability that the drawn ball is :

[a] Red ? .....

[b] White or black ? .....

(24) If the price of one metre of cloth is L.E. 6.45

What is the cost of 2.4 metres of cloth ?

.....

(25) If  $U = \{1, 2, 3, 4, 5, 7, 9\}$

,  $X = \{1, 2, 3, 4\}$  and  $Y = \{3, 4, 7, 9\}$

Draw a Venn diagram that represents

the sets U , X and Y

(26) Draw the  $\Delta ABC$  where  $AB = 4$  cm.

,  $BC = 5$  cm. and  $CA = 6$  cm.

, then draw its altitudes.

What is the type of  $\Delta ABC$  according

to its side lengths ?

### 3 Cairo Governorate

El-Mataryia Educational Zone  
Gaber Al-Ansary Language School



Answer the following questions :

**1 Complete the following :**

( 1 )  $36.274 + 33.28 = \dots \simeq \dots$  (to the nearest  $\frac{1}{100}$  )

( 2 )  $\frac{1}{2} \div \frac{1}{8} = \dots$

( 3 )  $2600$  gm.  $\simeq \dots$  kg. (to the nearest kg.)

( 4 )  $\{3, 4, 5\} \cup \{1, 4, 5\} = \dots$

( 5 ) If  $\{2, 5, 7\} = \{5, x, 2\}$  , then  $x = \dots$

( 6 ) The longest chord in the circle is called .....

( 7 ) ABC is an equilateral triangle of side length 4.1 cm.  
, then its perimeter = ..... cm.

( 8 ) The probability of the impossible event is .....

**2 Choose the correct answer :**

( 9 ) The right-angled triangle has ..... altitudes. ( 0 or 1 or 2 or 3 )

(10) The length of the diameter = .....  $(\frac{1}{2} \times r \text{ or } r \text{ or } 2 \times r \text{ or } 3 \times r)$

(11) If  $X \subset Y$ , then  $X \cap Y = ..... (X \text{ or } Y \text{ or } U \text{ or } \emptyset)$

(12) If  $U = \{2, 3, 4, 5, 6, 7\}$ , then  $\emptyset \subseteq U$   
( $\notin$  or  $\in$  or  $\not\subseteq$  or  $\subset$ )

(13) 3 ..... the set of odd numbers. ( $\notin$  or  $\in$  or  $\not\subseteq$  or  $\subset$ )

(14) The set of odd numbers is ..... set.  
( a finite or an infinite or an empty )

(15)  $\{3, 4\} \subseteq \{3, 4, 5, 2\}$  ( $\notin$  or  $\in$  or  $\not\subseteq$  or  $\subset$ )

(16)  $\frac{1}{2} \times 4 = ..... (2 \text{ or } 4 \text{ or } 3 \text{ or } 6)$

(17) The quotient of dividing  $2.25 \div 1.5 = ..... (1.5 \text{ or } 15 \text{ or } 0.15 \text{ or } 500)$

(18)  $\frac{1}{2} \square \frac{3}{4}$  ( $<$  or  $>$  or  $\geq$  or  $=$ )

(19)  $327 \div 24 = 3.27 \div ..... (2.4 \text{ or } 0.24 \text{ or } 240 \text{ or } 2400)$

(20)  $7.64 \times 0.93 \approx ..... (\text{to the nearest thousandth})$   
( 7.1052 or 710.52 or 7.105 or 7.106 )

(21)  $54.593 \approx 54.6$  to the nearest .....  
(  $\frac{1}{10000}$  or  $\frac{1}{10}$  or  $\frac{1}{100}$  or  $\frac{1}{1000}$  )

(22)  $325.4 \div 10 \square 3254 \div 100$  ( $<$  or  $>$  or  $=$ )

**3 Answer the following :**

(23) A box contains 6 yellow balls , 3 blue balls and 3 red balls. If one ball is drawn randomly , find the probability that the drawn ball is :

[a] Yellow = .....

[b] Not blue = .....

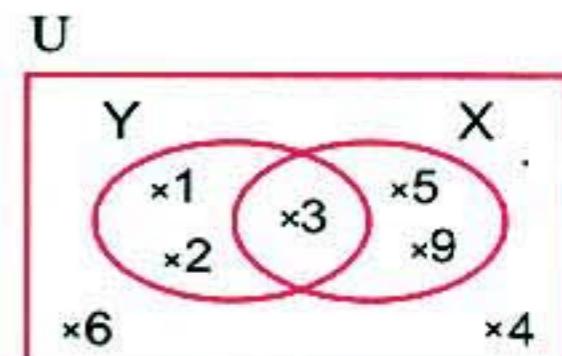
(24) By using the opposite Venn diagram , find :

[a]  $X \cup Y = \dots$

[b]  $X \cap Y = \dots$

[c]  $X - Y = \dots$

[d]  $\bar{Y} = \dots$



(25) Draw  $\triangle ABC$  where  $AB = 6\text{ cm}$ .

,  $AC = BC = 5\text{ cm}$ .

, then draw  $\overline{CD} \perp \overline{AB}$

(26) Find with steps :

[a]  $53.55 \div 3.15 = \dots$

[b]  $2 \frac{3}{4} \div 1 \frac{3}{8} = \dots$

## 4 Cairo Governorate

Dar El-Salam and El-Basateen Educational Zone  
Mathematics Supervision



Answer the following questions :

1 Complete the following :

(1)  $\frac{3}{7} \times \dots = 1$

(2)  $\{5, 6\} \cap \{4, 5\} = \dots$

(3)  $84.61 + 23.473 = \dots \approx \dots$  (to the nearest 2 decimal places)

(4) If  $\frac{x}{8} = \frac{15}{24}$  , then  $x = \dots$  (5) If  $X \subset Y$  , then  $X \cap Y = \dots$

(6) The longest chord in the circle is called .....

(7) The number of elements of the null set = .....

(8) The altitudes of the right-angled triangle intersect at one point located at .....

(9) The probability of the certain event is .....

(10) The area of the rectangle of 15.5 metres length and 5.5 metres width is .....

2 Choose the correct answer :

(11) If  $\{4, 8\} = \{1 + y, 4\}$  , then  $y = \dots$  (3 or 4 or 6 or 7)

(12) The number of altitudes of any triangle = .....

(1 or 2 or 3 or 4)

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هذا العمل حصري على موقع ذاكرولي التعليمي ولا يسمح بنشره في أي موقع آخر  
لمزيد من أعمالنا تفضل بزيارة موقعنا على الانترنت <https://www.zakrooly.com>

(13)  $10 \times 4.72$    $100 \times 0.472$  ( $>$  or  $<$  or  $=$  or otherwise)

(14)  $\emptyset$  .....  $\{3, 5\}$  ( $\notin$  or  $\in$  or  $\subset$  or  $\not\subset$ )

(15) ABC is an equilateral triangle of side length 4.5 cm.  
, then its perimeter = ..... cm. (12 or 13.5 or 15 or 9)

(16) The smallest number from the following is .....  
(0.111 or 0.12 or 0.123 or 1.023)

(17) When tossing a coin once , then the probability of appearing  
a tail = ..... (0 or 1 or  $\frac{1}{2}$  or 2)

(18)  $\{1, 2\} \cup \{2, 3\} =$  ..... ( $\{2\}$  or  $\{1, 3\}$  or  $\{1, 2, 3\}$  or  $\emptyset$ )

**3 Answer the following :**

(19) Arrange in a descending order :  $\frac{1}{4}$  , 0.8 , 0.4 and  $\frac{1}{2}$   
The order is : ..... , ..... , ..... and .....

(20)  $5 \frac{1}{3} \times 9 =$  ..... (21)  $2.5 \times 4.42 =$  .....

(22)  $25.25 \div 0.25 =$  ..... (23)  $\{2, 5, 8\} - \{3, 5, 7\} =$  .....

(24) Draw the equilateral triangle ABC  
whose side length is 6 cm.  
, then draw the three altitudes  
of this triangle.

(25) If the universal set  $U = \{x : x \text{ is an odd number less than } 15\}$ ,  
 $X = \{1, 3, 5\}$  and  $Y = \{1, 5, 9, 13\}$ .  
Draw a Venn diagram which represents the sets U , X and Y,  
then find :  $X \cap Y$  ,  $X - Y$  and  $Y'$

(26) As thrown a fair die once , calculate the probability of :  
**[a]** Appearing a number greater than 6  
**[b]** Appearing an even number

**5 Giza Governorate**

Answer the following questions :

**1 Choose the correct answer :**

(1)  $5.035 \approx \dots$  (to the nearest  $\frac{1}{100}$ ) ( 5 or 500 or 5.04 or 5.03 )

(2) If  $X \subset Y$ , then  $X \cap Y = \dots$  ( $X$  or  $Y$  or  $\emptyset$ )

(3) The probability of impossible event = ..... ( $0$  or  $1$  or  $\frac{1}{2}$  or  $\emptyset$ )

(4) The set of odd numbers is ..... set.  
( a finite or an empty or an infinite )

(5)  $32.5 \div 100 = \dots$  ( 0.32 or 0.325 or 3250 or 325.2 )

(6) The number of subsets of the set {a , b} is .....  
( 3 or 4 or 5 or 2 )

(7)  $327.5 \times 100 = \dots$  ( 3276 or 32750 or 327500 )

(8)  $\frac{2}{4} \boxed{\quad} \frac{1}{2}$  ( $>$  or  $<$  or  $=$  or  $\neq$ )

(9) The radius length of the circle = ..... the diameter length.  
(  $\frac{1}{2}$  or  $\frac{1}{4}$  or 2 )

(10) The probability of sure event = ..... ( 1 or 0 or 10 or  $\emptyset$  )

(11) The probability of getting an odd number when rolling a die once = ..... ( $\frac{1}{2}$  or  $\frac{1}{3}$  or 2 or 0 )

(12) The length of any chord  $\boxed{\quad}$  the length of the diameter in the same circle.  
(  $<$  or  $>$  or  $\leq$  or  $=$  )

(13)  $\emptyset \dots \{0\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(14) If  $\{5 , 7\} = \{x + 2 , 5\}$ , then  $x = \dots$  ( 2 or 5 or 7 or 3 )

**2 Complete the following :**

(15) If  $X \cap Y = \emptyset$ , then X and Y are ..... sets.

(16)  $25.71 + 3.5 = \dots \simeq \dots$  (to the nearest  $\frac{1}{10}$  )

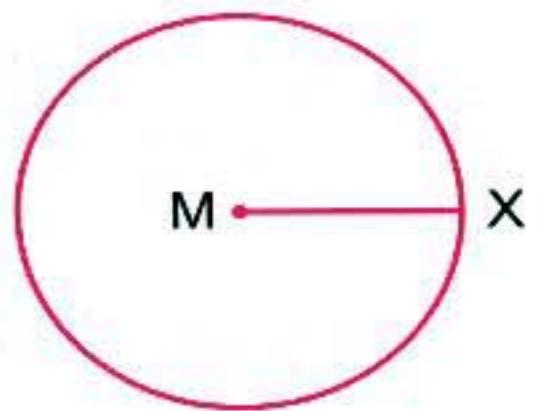
(17)  $\frac{2}{5} \div \frac{7}{5} = \dots$

(18)  $1\frac{2}{3} \times \frac{3}{7} = \dots$

(19) In the opposite figure :

 $\overline{MX}$  is called .....(20)  $22.5 \div \dots = 0.225$ (21) 36 days  $\approx \dots$  weeks (to the nearest week)

(22) The measure of the right angle = .....°



## 3 Answer the following :

(23)  $8636 \div 254 = \dots$  (with steps)

(24) Arrange in an ascending order :

$$\frac{1}{2}, 3\frac{1}{4}, 7\frac{1}{8} \text{ and } 0.2$$

The order is : ..... , ..... , ..... and .....

(25) A box contains 5 red balls , 3 blue balls and 2 black balls , what's the probability of getting :

[a] Red ball ? .....

[b] Yellow ball ? .....

[c] Black or red ball ? .....

[d] Blue ball ? .....

(26) Using your compasses and ruler

to draw  $\triangle ABC$  where  $AB = 7 \text{ cm.}$  and $BC = AC = 5 \text{ cm.}$  , then draw  $\overline{CD} \perp \overline{AB}$  ,find the length of  $\overline{CD}$ 

## 6 Giza Governorate

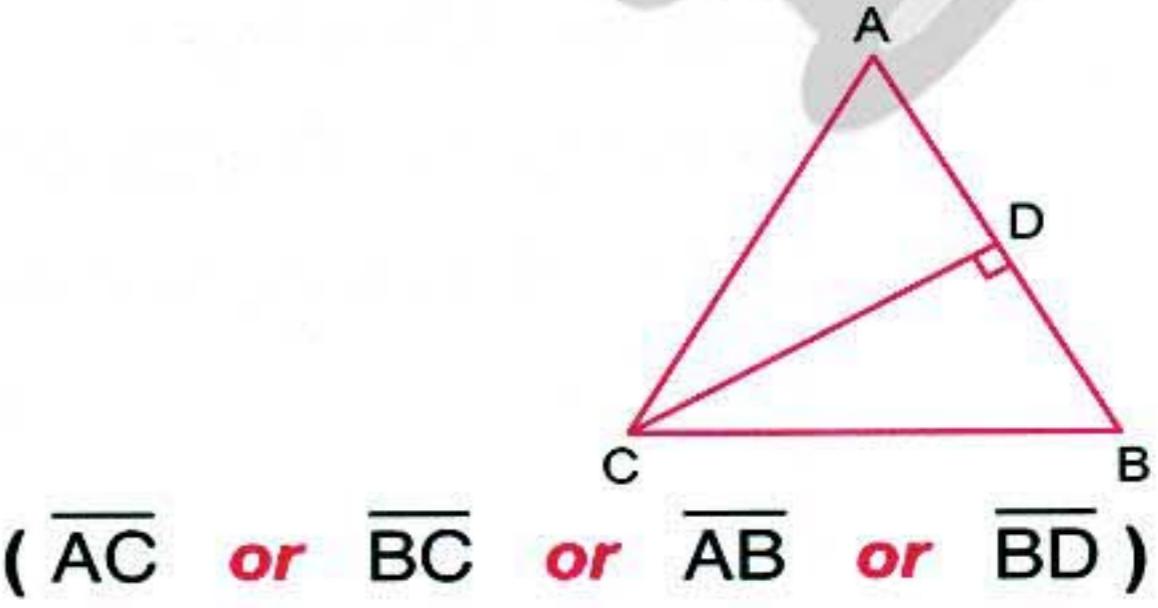
El-Haram Educational Directorate  
Elwy Language Schools

Answer the following questions :

## 1 Choose the correct answer :

(1) If  $\frac{1}{2} = \frac{x}{8}$  , then  $x = \dots$  (1 or 3 or 4 or 5)(2) The decimal form of the fraction  $\frac{13}{20}$  is .....

(0.13 or 0.65 or 6.5 or 0.065)

(3) In  $\triangle ABC$  , ..... is the corresponding base to the altitude  $\overline{CD}$ 

(AC or BC or AB or BD)

( 4 ) In a square , if its side length = 3.5 cm. , then its area = ..... cm<sup>2</sup>  
 ( 14 or 122.5 or 12.25 or 7 )

( 5 ) If  $X \subset Y$  , then  $X \cap Y$  = ..... ( X or Y or  $X \cup Y$  or  $X - Y$  )

( 6 )  $78.95 + 59.379 \approx$  ..... (to the nearest  $\frac{1}{100}$  )  
 ( 67.274 or 138.3 or 138.32 or 138.33 )

( 7 ) 51 days  $\approx$  ..... weeks (to the nearest week) ( 5 or 6 or 7 or 8 )

( 8 ) If  $\{4, 7\} = \{7, x - 1\}$  , then  $x$  = ..... ( 3 or 4 or 5 or 6 )

( 9 ) 987.65 cm.  $\approx$  ..... metres. ( 98765 or 99 or 98 or 10 )

( 10 )  $2 \frac{1}{4} \div 3 \frac{3}{8} =$  ..... (  $1 \frac{1}{2}$  or  $\frac{2}{3}$  or  $\frac{243}{32}$  or  $\frac{3}{32}$  )

( 11 )  $\frac{1}{2}$  hour  $\approx$  ..... minutes. ( 15 or 30 or 45 or 60 )

( 12 )  $1 \frac{2}{3} \times 1 \frac{1}{5} =$  ..... (  $2 \frac{3}{8}$  or 2 or  $1 \frac{7}{18}$  or  $\frac{13}{15}$  )

( 13 ) A chord which passes through the centre of a circle is called a .....  
 ( radius or diameter or tangent or side )

( 14 ) The smallest fraction of the following is ..... (  $\frac{1}{3}$  or  $\frac{2}{5}$  or  $\frac{5}{8}$  or  $\frac{2}{9}$  )

**2 Complete each of the following :**

( 15 ) The probability of an impossible event = .....

( 16 ) In an equilateral triangle , if its side length is 7.25 cm.  
 , then its perimeter = ..... cm.

( 17 )  $859.7 \div 1000 =$  .....

( 18 )  $\{2, 3, 5\} \cap \{23, 35\} =$  .....

( 19 )  $\{1, 4, 7\} \cap \{4, 5\} =$  .....

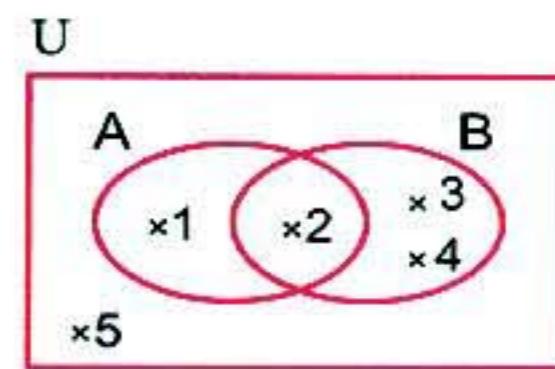
( 20 ) The number of altitudes of any triangle is .....

( 21 ) The sum of the measures of the interior angles of any triangle = .....°

( 22 )  $6 \frac{1}{4}$  km. = ..... metres.

**3 Answer the following :**

( 23 ) From the opposite figure , find :  
 [a]  $A - B =$  .....  
 [b]  $\hat{A} =$  .....



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(24) Draw a circle M of radius length 4 cm.

, draw the diameter  $\overline{AB}$

, the chord  $\overline{AC}$  of length 5 cm.

, and the chord  $\overline{BC}$

, then find by measuring :

[a] The length of  $\overline{BC} = \dots$

[b]  $m(\angle C) = \dots^\circ$

(25) A box contains 6 white balls , 9 red balls and 4 yellow balls , all of them are equal in size. One ball is drawn randomly from this box.  
Find the probability of getting :

[a] White ball = .....

[b] Ball which is not yellow = .....

(26) If the price of one metre of cloth is L.E. 39.8

What is the price of 8.5 metres to the nearest L.E. ?

7

Alexandria Governorate

West Educational Zone  
Maths Supervision



Answer the following questions :

1 Choose the correct answer :

(1)  $\frac{3}{4}$  of a day = ..... hours. ( 24 or 30 or 18 or 12 )

(2) 5 .....  $\{8, 6\} \cap \{3, 6, 1, 5\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

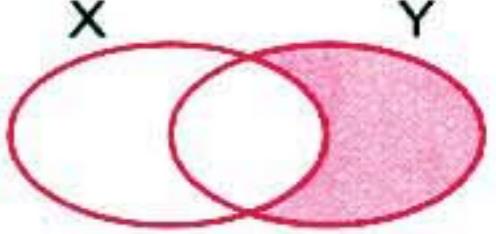
(3)  $\emptyset$  .....  $\{2, 6, 1, 5\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(4) The length of the longest chord in the circle is 6 cm. , then the length of the radius of this circle = ..... cm. ( 6 or 3 or 4.5 or 12 )

64



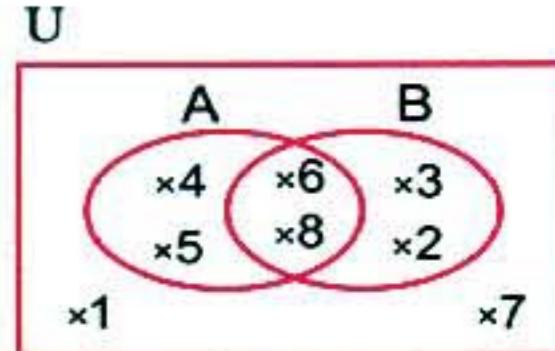
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( 5 )  $4.75 \text{ km.} = \dots \text{ m.}$  ( 4.75 or 47.5 or 475 or 4750 )( 6 ) When tossing a coin once , then the probability of appearing  
a tail = ..... ( 0 or 1 or  $\frac{1}{2}$  or 2 )( 7 ) The right-angled triangle has ..... height(s).  
( 1 or 3 or 4 or 2 )( 8 )  $36.762 \approx \dots$  (to the nearest hundredth)  
( 36.762 or 36.8 or 36.76 or 36.76 )( 9 ) The shaded part in the opposite figure represents ..... (  $X \cap Y$  or  $X - Y$  or  $X \cup Y$  or  $Y - X$  )(10)  $4.238 \times 100 \boxed{\quad} 420.38 \times 10$  ( $<$  or  $>$  or  $=$ )(11) The probability of the certain event = ..... ( 0 or 1 or  $\frac{1}{2}$  or  $\emptyset$  )(12) If  $A \subset B$  , then  $A \cap B = \dots$  ( A or B or  $\emptyset$  or  $\bar{A}$  )(13) If  $\frac{2}{3} = \frac{a}{12}$  , then a = ..... ( 4 or 3 or 12 or 8 )(14)  $4 \frac{1}{2} \boxed{\quad} 4.51$  ( $<$  or  $>$  or  $=$ )**2 Complete each of the following :**

(15) All the radii of the circle are .....

(16) If  $\{1, x + 3\} = \{9, 1\}$  , then x = .....(17) The altitudes of the obtuse-angled triangle intersect at one point  
which lies ..... the triangle.(18)  $\{2, 6, 1, 5\} - \{3, 6, 1, 5\} = \dots$ (19)  $38.76 + 25.38 = \dots$  (20)  $896.42 \div 100 = \dots$ (21)  $0.675 \times 2.3 = \dots$ (22)  $12 \frac{1}{2} \div 6 \frac{1}{4} = \dots$ **3 Answer the following :**

(23) By using the opposite Venn diagram , find :

[a]  $A \cap B = \dots$ [b]  $A \cup B = \dots$ [c]  $A - B = \dots$ [d]  $\bar{A} = \dots$ 

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(24) A box contains 5 white balls , 2 blue balls and 4 red balls , all of balls are equal in size, one ball is drawn randomly , find the probability that the drawn ball is :

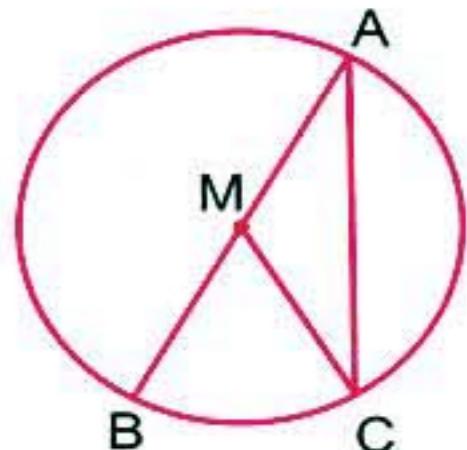
[a] White = .....

[b] Not green = .....

(25) Complete using the opposite figure :

[a]  $\overline{AB}$  is called .....

[b]  $\overline{AC}$  is called .....



(26) Draw the triangle ABC in which

$AB = 6 \text{ cm.}$  ,  $BC = 8 \text{ cm.}$

and  $AC = 10 \text{ cm.}$

[a] Find by measuring  $m(\angle B)$

[b] What is the type of  $\triangle ABC$  according to its angles ?

## 8

## Alexandria Governorate

Al-Agamy Educational Zone  
Maths Supervision



Answer the following questions :

1 Choose the correct answer :

( 1 ) $(72.12 + 12.7) \div 100 = \dots$	( 0.8419 or 0.8482 or 84.82 )
( 2 ) $\frac{1}{2} \div \frac{7}{4} = \dots$ (in the simplest form)	( $\frac{7}{8}$ or $\frac{4}{14}$ or $\frac{2}{7}$ )
( 3 ) $8.657 \text{ m.} = \dots \text{ cm.}$	( 865.7 or 8657 or 866 )
( 4 ) $3721 \div 1000 \boxed{\quad} 0.3721 \times 100$	( < or > or = )
( 5 ) $33.51 \text{ kg.} = \dots \text{ gm.}$	( 3351 or 33510 or 335100 )
( 6 ) $\emptyset \dots \{0\}$	( $\in$ or $\notin$ or $\subset$ or $\supset$ )
( 7 ) If $\{3, 5, 9\} = \{5, x+1, 3\}$ , then $x = \dots$	( 9 or 8 or 4 or 16 )

( 8 ) In a triangle ABC , if  $m(\angle A) = 50^\circ$  and  $m(\angle C) = 60^\circ$  , then the triangle is .....-angled triangle.

( an acute or a right or an obtuse )

( 9 ) 35 ..... the set of digits of number 3500 ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(10) If the length of the longest chord of the circle is 13 cm. , then the length of any radius = ..... cm. ( 26 or 6 or 6.5 or 11 )

(11)  $\{12\} - \{12, 14\} =$  ..... ( 12 or {14} or  $\emptyset$  or {0} )

(12) The number of the altitudes of the triangle is .....

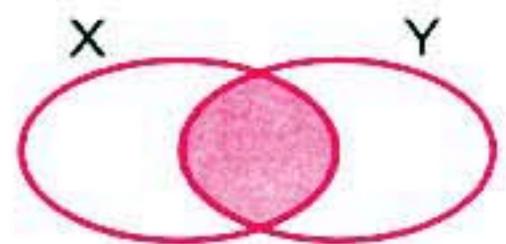
( 4 or 2 or 3 or 1 )

(13)  $15 \div 4 \approx$  ..... (to the nearest tenth) ( 3.75 or 3.8 or 3.7 or 4 )

(14)  $2 \frac{4}{5}$   2.16 ( $<$  or  $>$  or  $=$ )

**2 Complete the following :**

(15) The shaded part in the opposite figure represents ..... of two sets.



(16) When tossing a die once the probability of appearing a prime number is .....

(17) A square of side length 6.5 cm. , its area is ..... cm<sup>2</sup>.

(18) 240 months = ..... years.

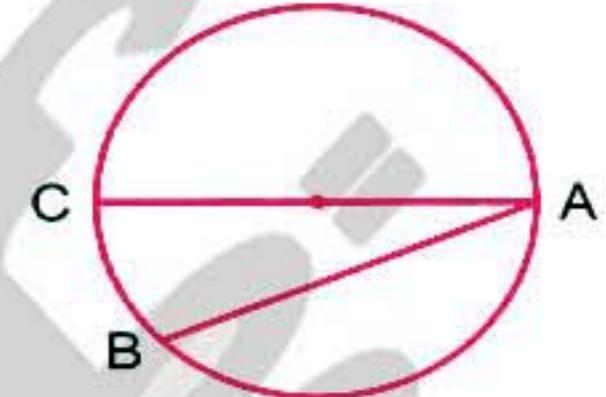
(19) The altitudes of the acute-angled triangle intersect at one point ..... the triangle.

(20)  $\{2, 12, 7, 10\} \cap \{5, 4, 12, 10\} =$  .....

(21)  $\frac{12}{9} \div 1 \frac{3}{27} =$  ..... (in the simplest form)

(22) In the opposite figure :

$\overline{AB}$  is called ..... of the circle.



**3 Answer the following :**

(23) If  $U = \{0, 2, 4, 6, 8, 10\}$

,  $X = \{2, 6, 8\}$  and  $Y = \{6, 10\}$

, draw a Venn diagram that

represents the sets U , X and Y

, then find  $X \cap Y$  ,  $X$  and  $Y$

(24) Arrange in a descending order :  $0.225$  ,  $\frac{3}{8}$  ,  $\frac{3}{4}$  and  $0.45$

(25) In a school, there are 250 girls and 350 boys, a student is chosen randomly, find :

[a] The probability that the chosen student is a boy = .....

[b] The probability that the chosen student is a girl = .....

(26) Draw a triangle ABC where

$AB = 6$  cm. and  $BC = AC = 5$  cm.

9

El-Kalyoubia Governorate

Banha Educational Zone  
Maths Supervision

Answer the following questions :

1 Choose the correct answer from those given :

(1)  $3 \dots \{3, 13, 23, 33\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(2)  $3.75 \times 1000 = \dots$  (  $0.375$  or  $0.0375$  or  $3750$  or  $37.5$  )

(3)  $\frac{1}{3} \times \frac{3}{4} = \dots$  (  $\frac{1}{3}$  or  $\frac{3}{4}$  or  $\frac{1}{2}$  or  $0.25$  )

(4) The perimeter of the equilateral triangle which its side length is  $3.2$  cm. = ..... cm. (  $9$  or  $9.2$  or  $9.6$  or  $9.4$  )

(5)  $43$  days  $\simeq$  ..... weeks (to the nearest week) (  $4$  or  $5$  or  $6$  or  $7$  )

(6) If  $\frac{a}{3} = \frac{5}{15}$  , then  $a = \dots$  (  $4$  or  $5$  or  $1$  or  $2$  )

(7)  $14.4 \times 10 \boxed{\phantom{0}} 144$  ( $>$  or  $<$  or  $=$  or otherwise )

(8)  $\emptyset \dots \{5, 6\}$  ( $\not\subset$  or  $\subset$  or  $\in$  or  $\notin$ )

(9)  $31.295 + 21.61 \simeq \dots$  (to the nearest  $\frac{1}{100}$  )  
(  $52.905$  or  $52.90$  or  $52.91$  or  $52.92$  )

(10)  $\{1, 3, 5\} \cap \{2, 4, 6\} = \dots$  (  $\{1, 2\}$  or  $\emptyset$  or  $\{4, 6\}$  or  $\{2, 4, 6\}$  )

(11)  $\frac{7}{9} \div 1\frac{1}{9} = \dots$  (  $\frac{8}{9}$  or  $\frac{10}{9}$  or  $\frac{7}{10}$  or  $\frac{9}{10}$  )

(12) If  $5 \in \{4 + x, 3\}$ , then  $x = \dots$  ( 1 or 2 or 3 or 4 )

(13) The number of the altitudes in any triangle = ..... ( 1 or 2 or 3 or 4 )

(14) If the length of the radius of a circle is 3 cm., then the length of its diameter = ..... cm. ( 3 or 6 or 9 or 12 )

**2 Complete the following :**

(15) The set of the digits of the number 7353 is .....

(16)  $2.64 \times 0.2 = \dots$

(17) As throwing a fair die once, then the probability of appearing the number 5 is .....

(18) 3.002 kg. = ..... gm.

(19)  $3\frac{1}{8} \approx \dots$  (to the nearest  $\frac{1}{10}$ )

(20)  $\frac{14}{5} = \frac{\dots}{10}$

**3 Answer the following :**

(21) By using the opposite Venn diagram, complete :

[a]  $U = \dots$

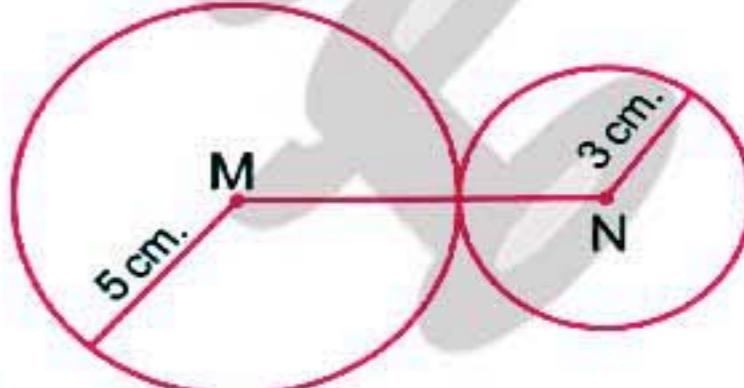
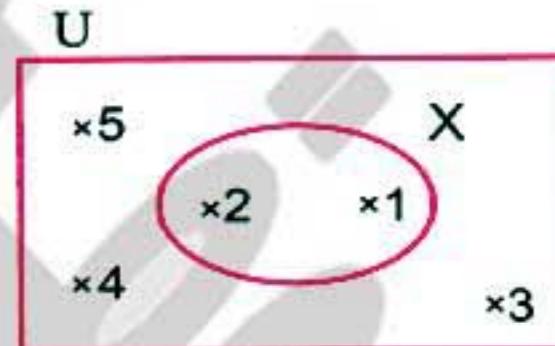
[b]  $X' = \dots$

(22) In the opposite figure :

M and N are two circles.

Then the length  $\overline{MN} = \dots$  cm.

(23) Write down all the subsets for the set  $A = \{3, 7\}$



(24) If  $X = \{3, 4, 5\}$  and  $Y = \{5, 6\}$ , then find :  $X \cup Y = \dots$   
and  $X - Y = \dots$

(25) Complete :

The probability of pupil' success in an exam is  $\frac{7}{10}$  , then the probability of his failure is .....

(26) Draw the triangle ABC in which

 $AB = BC = CA = 5 \text{ cm.}$ 

## 10 El-Sharkia Governorate

Directorate of Education  
Dep. of Governmental Formal School



Answer the following questions :

1 Choose the correct answer :

(1)  $3.75 \times 100 = \dots$  ( 0.375 or 37.5 or 375 or 0.0375 )

(2)  $\frac{1}{2} \boxed{\quad} 0.3$  ( $<$  or  $>$  or  $=$  or  $\leq$ )

(3)  $\{5\} \dots \{5, 8\}$  ( $\subset$  or  $\not\subset$  or  $\in$  or  $\notin$ )

(4) When tossing a coin once, the probability of appearing a tail = ..... ( 0 or 1 or 2 or  $\frac{1}{2}$  )

(5)  $\frac{4}{3} \times \frac{3}{4} = \dots$  ( 0 or 1 or 3 or 4 )

(6) The number of altitudes of any triangle = ..... ( 1 or 2 or 3 or 4 )

(7)  $\{5\} - \{1, 5\} = \dots$  (  $\{15\}$  or  $\{5\}$  or  $\{1\}$  or  $\emptyset$  )

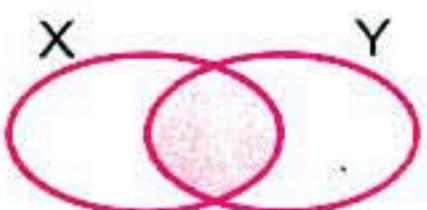
(8)  $3.36 \text{ km.} = \dots \text{ m.}$  ( 3.36 or 33.6 or 336 or 3360 )

(9) 43 days  $\simeq \dots$  weeks. (to nearest week) ( 4 or 6 or 5 or 7 )

(10) If  $3 \in \{x, 5\}$  , then  $x = \dots$  ( 3 or 4 or 5 or 6 )

(11) Any chord passing through the centre of the circle is called a ..... ( diameter or radius or chord )

(12)  $48.4 \div 4 = \dots$  ( 1.21 or 0.121 or 12.1 or 121 )

(13) The shaded part in the opposite figure represents ..... 

(X ∩ Y or X ∪ Y or X - Y or Y - X)

(14)  $312 \div 10 = \dots$  ( 3.12 or 0.312 or 31.2 or 3120 )

**2 Complete :**

(15) If  $X \subset Y$ , then  $X \cap Y = \dots$

(16) The probability of the sure event = .....

(17)  $2.4 \times 0.7 = \dots$

(18)  $4.679 \approx \dots$  (to the nearest hundredth)

(19) If  $\frac{x}{8} = \frac{15}{24}$ , then  $x = \dots$

(20)  $\frac{4}{12} \div \frac{5}{12} = \dots$

(21) A circle of diameter length = 4 cm., then its radius length = ..... cm.

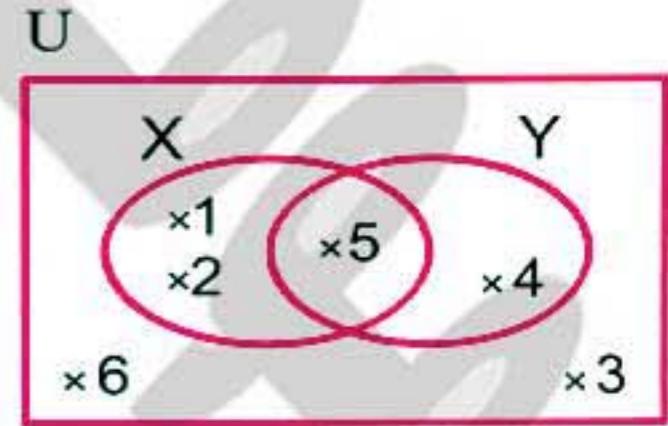
(22) If  $\{1, a\} = \{2, b\}$ , then  $a = \dots$  and  $b = \dots$ **3 Answer the following :**(23) An owner of packing food factory wanted to divide 5904 kilograms of sugar equally in 492 packs. What's the weight of each pack ?  
.....(24) Look at the opposite Venn diagram  
, then complete :

[a]  $X \cup Y = \dots$

[b]  $X \cap Y = \dots$

[c]  $X - Y = \dots$

[d]  $X^c = \dots$

(25) A box contains identical balls where 5 balls are white, 3 red and 7 black, If one ball is chosen randomly, what is the probability that the chosen ball is white ?  
.....

(26) Draw a circle M of radius length 3 cm.

And draw the diameter  $\overline{AB}$

, then find the length of  $\overline{AB}$

$AB = \dots$  cm.

## 11 El-Monofia Governorate

Shiben El-Kom Educational Directorate  
Maths Department



Answer the following questions :

1 Choose the correct answer from those between brackets :

(1) The number of months in half of a year = ..... (6 or 3 or 5 or 9)

(2) The number of subsets of the set {4, 5} equals ..... (2 or 3 or 4 or 9)

(3) As throwing a fair die once, then the probability of appearing the number 5 equals ..... ( $\frac{1}{2}$  or  $\frac{1}{6}$  or  $\frac{5}{6}$  or  $\frac{2}{3}$ )

(4) If  $X \subset Y$ , then  $X - Y =$  ..... ( $X$  or  $Y$  or  $\emptyset$  or  $U$ )

(5) The number 276.5327 approximated to the nearest thousandth = ..... (277 or 276.533 or 276.54 or 276.5)

(6) The smallest fraction in the following is ..... ( $\frac{1}{3}$  or  $\frac{5}{8}$  or  $\frac{2}{9}$  or  $\frac{2}{5}$ )

(7) If  $\{7, 10\} = \{10, x + 4\}$ , then  $x =$  ..... (3 or 4 or 5 or 6)

(8)  $\{9\} \dots \{99\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(9) If  $X = \{1, 4, 5\} \cap \{5, 3, 7\}$ , then  $1 \dots X$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(10) If  $\{3, 6\} = \{1 + x, 3\}$ , then  $x =$  ..... (2 or 3 or 4 or 5)

(11) To draw a circle of diameter length 12 cm., then the opening distance of compasses should be ..... cm. (12 or 6 or 9 or 24)

(12) If M is a circle whose diameter length is 8 cm. where  $MA = 7$  cm., then the point A is located ..... the circle.  
(inside or outside or on or otherwise)

(13) If  $\frac{2}{5} = \frac{a}{15}$ , then  $a = \dots$  (6 or 12 or 9 or 4)

(14) The quotient of dividing  $5.45 \div 0.5 = \dots$  (1.9 or 1.09 or 10.9 or 109)

**2 Complete :**

(15)  $99.995 = \dots$  (to the nearest hundredth)

(16) 5.4 tons = ..... kg. (17)  $\frac{3}{8} \times \frac{2}{9} = \dots$

(18) If  $X \cap Y = Y$ , then .....  $\subset \dots$

(19) The number of altitudes of the obtuse-angled triangle is .....

(20) The chord of the circle which passes through its centre is called a .....

(21)  $25.25 \div 0.25 = \dots$

(22)  $3.75 \times 1000 = \dots$

**3 Answer the following :**

(23) Arrange the following numbers ascendingly :  $\frac{1}{4}$  , 0.8 , 0.4 ,  $\frac{1}{2}$  and  $\frac{3}{4}$

(24) Represent the two sets A and B by a Venn diagram where

$A = \{1, 2, 3, 6\}$  and  $B = \{2, 3\}$ , then find :

[a]  $A \cap B = \dots$

[b]  $A \cup B = \dots$

(25) Draw  $\triangle XYZ$  which is equilateral and its side length = 4 cm.  
Draw a circle of center X and radius length 4 cm.

(26) A bag contains 5 red balls, 8 black balls and 7 white balls, all of them are identical and equal in size. A ball is drawn randomly, calculate the probability that :

[a] The drawn ball is black = .....

[b] The drawn ball isn't green = .....

## 12 El-Gharbia Governorate

El-Gharbia Educational Directorate  
Maths Supervision

Answer the following questions :

## 1 Choose the correct answer :

(1) 10 halves  20 quarters. ( $<$  or  $>$  or  $=$ )

(2)  $35.7 \div 100 =$  ..... ( $0.357$  or  $3570$  or  $357$ )

(3) The longest chord in the circle is called a .....  
(radius or diameter or centre)

(4)  $(A \cap B) \dots A$  ( $\not\subset$  or  $\subset$  or  $\in$ )

(5)  $2 \frac{1}{3} \times \dots = 1$  ( $\frac{3}{7}$  or  $\frac{7}{3}$  or  $2 \frac{1}{2}$ )

(6)  $X \cap X' =$  ..... ( $\emptyset$  or  $U$  or  $X$ )

(7)  $6.25 \div 2.5 = 62.5 \div$  ..... ( $250$  or  $25$  or  $0.25$ )

(8)  $2.5 \times 53.8 \quad \square \quad 0.25 \times 5.38$  ( $<$  or  $>$  or  $=$ )

(9)  $24.637 \approx$  ..... (to the nearest hundredth)  
( $24.64$  or  $24.63$  or  $24.6$ )

(10)  $\{5, 7\} - \{3, 5, 8\} =$  ..... ( $\emptyset$  or  $\{5, 3, 8\}$  or  $\{7\}$ )

(11) If A and B are disjoint sets, then  $A - B =$  ..... ( $\emptyset$  or  $A$  or  $B$ )

(12) The number of altitudes in any triangle is ..... ( $1$  or  $2$  or  $3$ )

(13)  $538.7 \text{ cm.} \approx$  ..... m. ( $6$  or  $5.387$  or  $5$ )

(14) If  $X \subset Y$ , then  $X \cup Y =$  ..... ( $X$  or  $Y$  or  $\emptyset$ )

## 2 Complete each of the following :

(15)  $3 \frac{1}{2} \div \frac{7}{12} =$  .....

(16)  $3.56 \text{ km.} =$  ..... m.

(17)  $\{2, 4, 6\} \cap \{2, 3, 5, 7\} =$  .....

(18) A circle the length of its radius is 5 cm., then the length of its diameter is ..... cm.

(19) The probability of the impossible event = .....

(20) The altitudes of any triangle intersect at ..... point(s).

(21) If  $a \in \{1, 3, 5\} \cap \{2, 3, 7\}$ , then  $a =$  .....

(22)  $43.6 \div 4 =$  .....

## 3 Answer the following :

(23) If the price of one metre of cloth is 27.5 pounds.

What is the price of 3 metres of same kind ?

The price of 3 metres = ..... = ..... pounds.

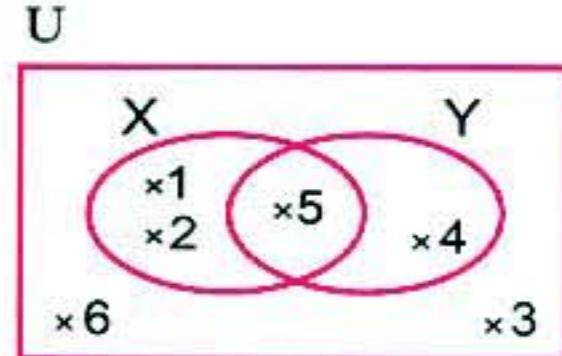
(24) From the opposite Venn diagram , find by listing method :

[a]  $X \cap Y = \dots$

[b]  $X \cup Y = \dots$

[c]  $X - Y = \dots$

[d]  $\bar{X} = \dots$

(25) Draw  $\triangle ABC$  in which  $AC = 5$  cm.,  $AB = 4$  cm. and  $BC = 3$  cm., then draw the altitude from B on  $\overline{AC}$ 

(26) As throwing a fair die once, find the probability of :

[a] Appearing a prime number = .....

[b] Appearing a number less than or equal 6 = .....

[c] Appearing an even prime number = .....

[d] Appearing a number not divisible by 3 = .....

## 13 El-Dakahlia Governorate

Maths Supervision



Answer the following questions :

## 1 Choose the correct answer :

(1)  $235 \div 15 = 23.5 \div \dots$  ( 1.5 or 0.15 or 150 )

(2) If  $\frac{8}{9} = \frac{a}{18}$ , then  $a = \dots$  ( 4 or 16 or 27 )

(3)  $50 \text{ cm}^2 = \dots \text{ dm}^2$  ( 0.05 or 50 or 0.5 )

(4)  $\{3\} \dots \{1, 2, 3\}$  ( $\in$  or  $\subset$  or  $\not\subset$ )

(5) If the probability of pupil's success is  $\frac{4}{5}$ , then the probability of his failure is ..... ( 1 or 0.2 or 0.1 )(6) 39 days  $\simeq \dots$  weeks. ( 5 or 6 or 7 )

(7)  $2 \frac{1}{2} \div \frac{1}{4} = \dots$  ( 5 or 10 or 4 )

75



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لمزيد من أعمالنا تفضل بزيارة موقعنا على الانترنت <https://www.zakrooly.com>

## 2 Complete each of the following :

( 8 ) The probability of the sure event is .....

( 9 ) If  $X \subset Y$  , then  $X \cap Y =$  .....

(10) The number of the altitudes of the right-angled triangle is .....

(11) The perimeter of a square =  $\frac{1}{5}$  metre , then it's side length = ..... cm.

(12)  $12.5 \times \dots = 1.25$

(13) 15 tenths = ..... tens.

## 3 Choose the correct answer :

(14)  $\emptyset \cup X = \dots$  (  $\emptyset$  or  $X$  or  $U$  )

(15) If  $\{3 , x - 1\} = \{3 , 5\}$  , then  $x = \dots$  ( 6 or 4 or 3 )

(16)  $\frac{8}{9} > \dots$  (  $\frac{7}{8}$  or  $\frac{9}{10}$  or  $\frac{19}{20}$  )

(17) The line segment whose endpoints are the centre of the circle and any point  $\in$  the circle is called a .....  
( chord or radius or diameter )

(18) {2 , 1 , 17} ..... the set of digits of the number 2117  
( = or  $\subset$  or  $\not\subset$  )

(19) If  $X \subset Y$  , then  $X - Y = \dots$  (  $X$  or  $Y$  or  $\emptyset$  )

(20)  $25 \times 0.1 \boxed{\quad} 25 \div 0.1$  ( = or > or < )

## 4 Answer the following :

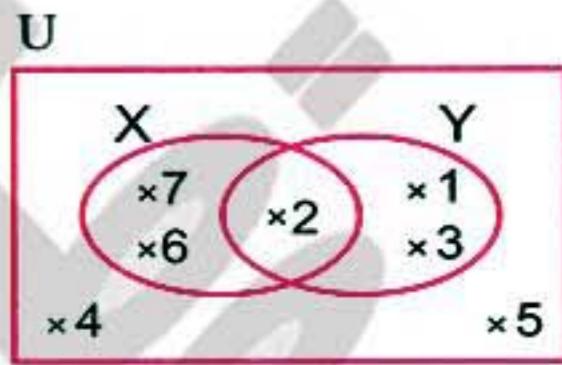
(21) From the opposite figure , find by listing method :

[a]  $X \cup Y = \dots$

[b]  $X \cap Y = \dots$

[c]  $X - Y = \dots$

[d]  $(X \cup Y)^c = \dots$



(22) A box contains 3 blue balls , 4 red balls and 5 green balls. All the balls are identical and equal in size , if a ball is drawn randomly , what is the probability that the drawn ball is :

[a] Blue ? .....

[b] Not blue ? .....

[c] Blue or red ? .....

[d] Black ? .....

(23) Find with steps :

$2.8905 \div 1.23 = \dots$  (approximated to the nearest tenth)

(24) Ahmed bought 35 books, if the price of each book is 7.5 pounds , find the total price of all books to the nearest pound. (show the steps)

(25) Draw the equilateral triangle ABC whose side length = 6 cm. , then :

[a] Draw  $\overline{AD} \perp \overline{BC}$

[b] Calculate the perimeter of  $\triangle ABC$

## 14 Ismailia Governorate

Directorate of Education  
Directing of Mathematics



Answer the following questions :

1 Choose the correct answer :

(1)  $\frac{4}{7}$    $\frac{2}{3}$  ( $<$  or  $>$  or  $=$ )

(2) The probability of certain event = ..... ( $\frac{1}{2}$  or 0 or 1 or  $\frac{1}{4}$ )

(3) Any triangle has ..... altitudes. (0 or 1 or 2 or 3)

(4)  $\emptyset$  .....  $\{5, 6\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(5) 8 halves = 20 fifths ( $\checkmark$  or  $\times$ )

(6) If  $X \subset Y$  , then  $X \cap Y$  = ..... ( $X$  or  $Y$  or  $\emptyset$  or  $U$ )

(7) If  $\{7, 10\} \subset \{10, x + 4\}$  , then  $x$  = ..... (3 or 4 or 6 or 10)

(8) If  $\frac{6}{8} < \frac{x}{8} < 1$  , then  $x$  = ..... (1 or 7 or 8 or 6)

(9) The smallest fraction of the following is ..... ( $\frac{1}{2}$  or  $\frac{1}{3}$  or  $\frac{1}{4}$  or  $\frac{1}{5}$ )

(10) To draw a circle with diameter 6 cm. , we open the compasses ..... cm. (6 or 3 or 12 or 2)

(11) 6.8 kg. = ..... gm. (680 or 6080 or 7 or 6800)

(12)  $48.37 \div \dots = 4.837$  (10 or 100 or 1000 or 10000)

(13)  $\frac{2}{3} \div \dots = 1$  ( $\frac{2}{3}$  or  $\frac{3}{2}$  or 1 or  $\frac{5}{6}$ )

(14) If  $\frac{3}{6} = \frac{4}{x}$  , then  $x$  = ..... (3 or 27 or 8 or 6)

## 2 Complete :

(15)  $2.83 \times 1000 = \dots$

(16)  $6.3729 \approx \dots$  (to the nearest  $\frac{1}{1000}$ )

(17)  $2.3 \times 0.32 = \dots$

(18)  $6 \frac{3}{8} \approx \dots$  (to the nearest  $\frac{1}{100}$ )

(19) If  $U = \{0, 1, 2, 3, 4\}$  and  $A = \{1, 3, 4\}$ , then  $\bar{A} = \dots$ (20) The reciprocal of  $1 \frac{2}{7}$  is  $\dots$ (21) The longest chord in a circle is called  $\dots$ (22) The line segment that joining between the centre of a circle and any point on a circle is called  $\dots$ 

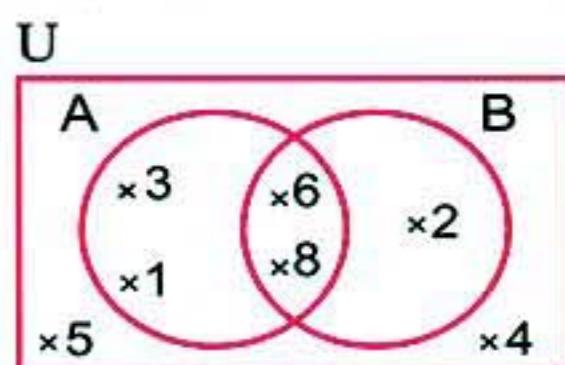
## 3 Answer the following :

(23)  $1 \frac{2}{3} \times \frac{1}{10} = \dots$

(24) Use the opposite Venn diagram to find :

[a]  $A \cap B = \dots$

[b]  $B - A = \dots$



(25) A bag contains 3 white balls, 5 yellow balls and 2 red balls, a ball is drawn randomly, find the probability that the drawn ball is :

[a] White =  $\dots$  [b] Yellow or red =  $\dots$

(26) Draw ABC isosceles triangle in which

 $AB = AC = 5 \text{ cm.}$ ,  $BC = 6 \text{ cm.}$ and draw  $\overline{AD}$  perpendicular to  $\overline{BC}$ , then find by measuring the length of  $\overline{AD}$ 

## 15 Suez Governorate

South Educational Directorate  
Maths Inspection

Answer the following questions :

## 1 Choose the correct answer :

(1)  $55.241 \times 100 \boxed{\phantom{00}} 552.41 \times 10$

(&gt; or = or &lt;)

( 2 )  $3 \frac{1}{2} \div \frac{7}{12} = \dots$  ( 6 or  $\frac{49}{24}$  or 4 )

( 3 )  $3 \dots \{303.13\}$  ( $\in$  or  $\subset$  or  $\notin$ )

( 4 ) Any triangle has ..... altitudes. ( 1 or 3 or 2 )

( 5 ) The longest chord in a circle is called a .....  
( diameter or radius or chord )

( 6 ) If  $\{x + 1, 5\} = \{6, 5\}$ , then  $x = \dots$  ( 6 or 1 or 5 )

( 7 )  $85.67 - 67.5 = \dots$  ( 18.17 or 22.2 or 22.17 )

( 8 )  $276.532 \simeq \dots$  (to the nearest hundredth) ( 277 or 276.53 or 276.5 )

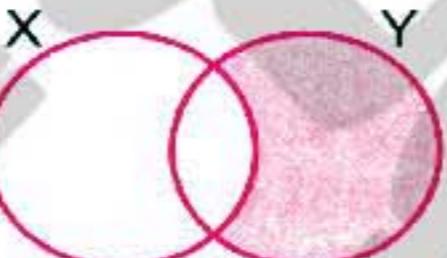
( 9 ) If  $X \subset Y$ , then  $X \cup Y = \dots$  ( $X$  or  $Y$  or  $\emptyset$ )

(10) The number of subsets of  $\{4, 5\}$  equals ..... ( 3 or 4 or 5 )

(11) The probability of the sure event is ..... ( 0 or  $\frac{1}{2}$  or 1 )

(12)  $225 \div 25 = 2.25 \div \dots$  ( 0.25 or 2.5 or 25 )

(13) 572.4 cm.  $\simeq \dots$  metres. ( 572 or 6 or 60 )

(14) The shaded part of  represents .....  
(  $X \cap Y$  or  $Y - X$  or  $X - Y$  )

**2 Complete :**

(15)  $3.75 \times 1000 = \dots$

(16) If  $\triangle ABC$  is equilateral of side length 6 cm., then its perimeter = ..... cm.

(17)  $\{3, 2, 4\} \cap \{13, 4, 20\} = \dots$

(18) If  $U = \{1, 2, 3, 4, 5\}$  and  $A = \{2, 4\}$ , then  $\bar{A} = \dots$

(19) Half of a year = ..... months.

(20)  $39.76 \simeq \dots$  (to the nearest unit)

(21) If the length of longest chord in the circle is 10 cm., then its radius length = ..... cm.

(22) As tossing a coin once, then the probability of appearing a head is .....

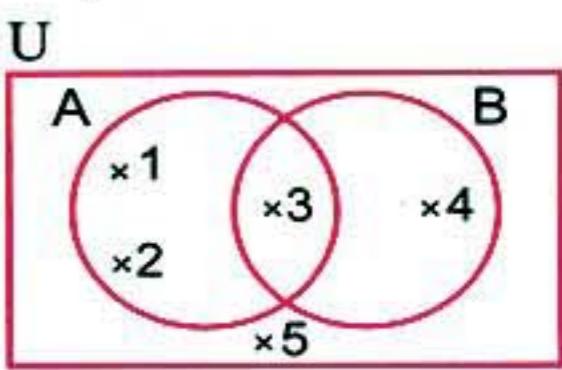
**3 Answer the following :**

(23) Arrange in an ascending order :  $3 \frac{1}{4}$ , 3.3, 3.125 and  $3 \frac{1}{2}$

(24) From the opposite figure , find :

[a]  $A \cap B = \dots$

[b]  $(A - B) = \dots$



(25) As throwing a fair die once , find the probability of :

[a] Appearing a number greater than 6 = .....

[b] Appearing the number 5 = .....

(26) Draw  $\triangle ABC$  in which  $AB = 7$  cm.

,  $BC = 6$  cm. and  $AC = 5$  cm.

## 16 Damietta Governorate

Mathematics Inspection



Answer the following questions :

1 Choose the correct answer :

( 1 )  $25.6745 \approx \dots$  (to the nearest thousandth)

( 25.674 or 25.675 or 25.67 or 25.68 )

( 2 ) 35.2694 pounds = ..... piastres.

( 0.352694 or 3.52694 or 35.2694 or 3526.94 )

( 3 ) The set of prime numbers more than 30 is ..... set.

( a finite or an infinite or an empty or otherwise )

( 4 ) Any chord passing through the centre of a circle is called .....

( a diameter or a radius or a chord or otherwise )

( 5 )  $2 \frac{5}{7} \boxed{\quad} 2 \frac{3}{5}$

( > or = or  $\geq$  or  $<$  )

( 6 )  $4 \frac{1}{8} \times 2 \frac{2}{3} = \dots$

( 1 or 10 or 11 or 111 )

( 7 ) If  $\frac{x}{8} = \frac{15}{24}$  , then  $x = \dots$

( 24 or 15 or 3 or 5 )

( 8 )  $\frac{1}{8} \div 0.5 = \dots$

( 0.025 or 0.25 or 2.5 or 25 )

( 9 )  $23.21 \div 1000 = \dots$

( 232.1 or 2.321 or 0.2321 or 0.02321 )

(10)  $0.3 \times 0.3 \times 0.3 = \dots$

( 0.027 or 0.27 or 2.7 or 27 )

(11)  $\emptyset \dots \{8, 7, 5\}$

(  $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$  )

(12)  $Y = \{2, 4, 6\} \cup \{1, 2, 3\}$ , then  $6 \dots Y$   
 $(\in \text{ or } \notin \text{ or } \subset \text{ or } \not\subset)$

(13) The number of subsets for the set  $\{5, 6\}$  is .....  
 $(1 \text{ or } 2 \text{ or } 3 \text{ or } 4)$

(14) If M is a circle whose diameter length is 6 cm. where  $MA = 5 \text{ cm.}$ , then the point A is located ..... the circle.  
 $(\text{inside or outside or on or otherwise})$

**2 Complete the following :**

(15) The probability of the sure event = .....

(16)  $3 \frac{1}{8} \div 2 \frac{1}{2} = \dots$

(17)  $\frac{5}{8} \approx \dots$  (to the nearest hundredth)

(18) The greatest fraction from the following  $\frac{1}{4}, \frac{1}{5}$  and 0.23 is .....

(19) If  $7 \in \{3, 3 + x\}$ , then  $x = \dots$

(20) If  $U = \{1, 2, 5\}$ ,  $X = \{5\}$ , then  $X = \dots$

(21) The number of altitudes of the obtuse angled-triangle = .....

(22) To draw a circle of diameter length 6 cm., then the opening distance of the compasses = .....

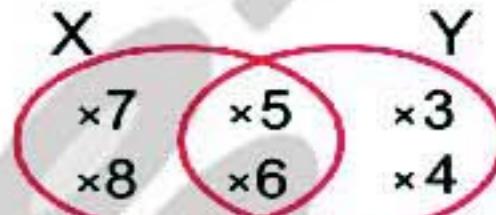
**3 Answer the following :**

(23) An owner of packing food factories wanted to pack 5405 kilograms of sugar equally in 235 packs. What is the weight of each pack ?  
.....

(24) Look at the opposite Venn diagram, then find the following :  
**[a]**  $X - Y = \dots$   
**[b]**  $X \cap Y = \dots$

(25) A bag contains 5 white balls, 9 red balls and 6 black balls, if one ball is chosen randomly. What is the probability that the chosen ball is :  
**[a]** White ? .....      **[b]** Red or black ? .....

(26) Draw the triangle XYZ where  $XY = XZ = 5 \text{ cm.}$  and  $YZ = 6 \text{ cm.}$ , then draw  $\overline{XD} \perp \overline{YZ}$  that intersects  $\overline{YZ}$  at D



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## Kafr El-Sheikh Governorate

Maths Inspection



Answer the following questions :

## 1 Complete :

( 1 )  $1.775 \times 0.15 \approx \dots$  (to the nearest hundredth)

( 2 ) The probability of the sure event = .....

( 3 ) If  $\frac{2}{3} = \frac{16}{a}$ , then  $a = \dots$

( 4 ) The number of all the subsets of the set {2 , 6} is .....

( 5 )  $5 \frac{1}{2} \div 3 \frac{2}{3} = \dots$

( 6 ) The longest chord in the circle is called .....

( 7 ) If  $\{a , 5 , 8\} = \{b , 4 , 8\}$ , then  $(a + b) = \dots$

( 8 ) If  $X = Y$ , then  $X - Y = \dots$

## 2 Choose the correct answer :

( 9 )  $4 \frac{1}{8} \times 2 \frac{2}{3} = \dots$  ( 0 or 10 or 11 or 111 )

(10)  $\{73\} \dots \{7 , 3\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(11) The number of altitudes of any triangle is ..... ( 0 or 1 or 2 or 3 )

(12) In a class there are 40 pupils, 25 of them are boys and the rest is girls.  
The probability of choosing a girl = ..... ( $\frac{3}{8}$  or  $\frac{5}{8}$  or  $\frac{3}{5}$  or 1 )

(13)  $155.241 \times 100 \boxed{\quad} 522.4 \times 10$  ( $<$  or  $>$  or  $=$  or  $\leq$ )

(14) A circle of radius length 4 cm. , then its diameter length = ..... cm. ( 1 or 2 or 4 or 8 )

(15) If  $X = \{2 , 5 , 6\} \cap \{3 , 5\}$  , then  $X \dots \{3 , 5\}$   
( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(16) If  $\{7 , 10\} \subset \{10 , x + 4 , 5\}$  , then  $x = \dots$  ( 10 or 7 or 5 or 3 )

(17) 43 days  $\approx \dots$  weeks. (to the nearest week) ( 5 or 6 or 7 or 8 )

(18)  $m \dots \{maths\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(19)  $4.25 \div \dots = 8 \frac{1}{2}$  (2 or 12.75 or  $\frac{1}{4}$  or 0.5)

(20) 2.4 dm. = ..... cm. (240 or 24 or 0.24 or 0.024)

(21)  $37440 \div 234 = \dots$  (16 or 106 or 160 or 1600)

(22) If  $6 \in \{3, 5, 2x\}$ , then  $x = \dots$  (2 or 3 or 4 or 5)

**3 Answer the following :**

(23) The area of a rectangle =  $10.25 \text{ m}^2$  and its length is 4.1 m.  
Find the width and the perimeter of this rectangle.

.....  
.....

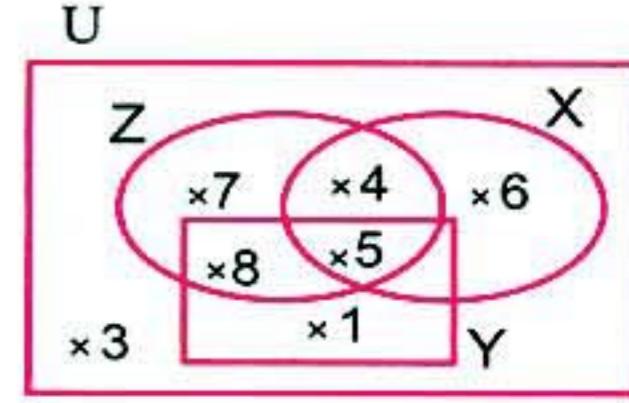
(24) Look at the opposite figure ,then complete :

[a]  $X \cup Y = \dots$

[b]  $Z \cap Y = \dots$

[c]  $X - Z = \dots$

[d]  $(Z \cup X)^c = \dots$



(25) Arrange the following fractions in an ascending order :

$$0.6, \frac{2}{5}, 0.8 \text{ and } \frac{3}{4}$$

The order is : ..... , ..... , ..... and .....

(26) Draw  $\triangle ABC$  in which  $AB = 3 \text{ cm}$ .

,  $BC = 4 \text{ cm}$ . and  $AC = 5 \text{ cm}$ .

M is the midpoint of  $\overline{AC}$

, then draw a circle M

with radius length 2.5 cm.

.....  
.....

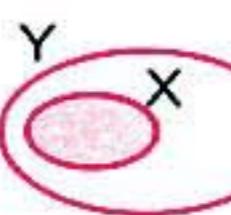
**18 El-Beheira Governorate**

Bandr Damhour Educational Zone  
Ismail El-Habrouk G.L.S.



Answer the following questions :

**1 Choose the correct answer :**

(1) The shaded part of  represents .....

$$(X \cap Y \text{ or } X \cup Y \text{ or } X - Y \text{ or } Y - X)$$

83



هذا العمل حصري على موقع ذاكرولي التعليمي ولا يسمح بنشره في أي موقع آخر  
لمزيد من أعمالنا تفضل بزيارة موقعنا على الانترنت <https://www.zakrooly.com>

( 2 ) There are ..... altitudes in the right-angled triangle.

( 0 or 1 or 2 or 3 )

( 3 )  $3.75 \times 1000 = \dots$  ( 0.375 or 0.0375 or 3750 or 37.5 )

( 4 ) 2.4 dm. = ..... cm. ( 0.24 or 24 or 240 or 2400 )

( 5 )  $\{23\} \dots \{2, 3\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

( 6 )  $3 \frac{1}{8} \approx \dots$  (to the nearest hundredth) ( 3.125 or 3.12 or 3.13 or 3.1 )

( 7 ) If  $\{5, 7\} = \{7, x + 2\}$ , then  $x = \dots$  ( 3 or 4 or 5 or 6 )

( 8 )  $24.551 \times 100 \boxed{\quad} 22.541 \times 10$  ( $>$  or  $<$  or  $=$ )

( 9 ) Any chord passing through the centre of a circle is called a ..... ( diameter or radius or chord )

(10)  $4 \frac{1}{8} \times 2 \frac{2}{3} = \dots$  ( 1 or 10 or 11 or 111 )

(11)  $0.067 \times 1000 = \dots$  ( 6.7 or 67 or 0.067 or 670 )

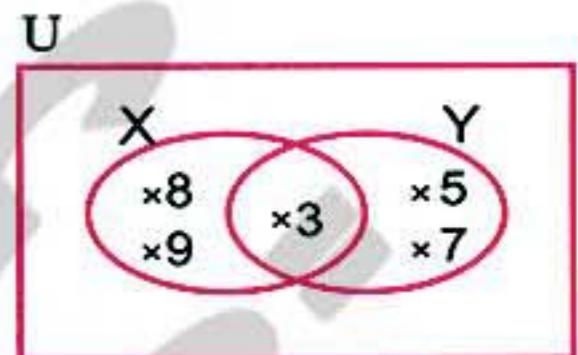
(12)  $1.7 \div 10 = \dots$  ( 17 or 0.17 or 1.7 or 0.017 )

(13)  $2.125 \div 0.25 = \dots \div 25$  ( 212.5 or 21.25 or 2125 or 21250 )

(14) The number of subsets of set  $\{5\}$  is ..... ( 0 or 1 or 2 or 3 )

**2 Complete :**

(15) If  $X \subset Y$ , then  $X \cap Y = \dots$



(16) From the opposite figure :

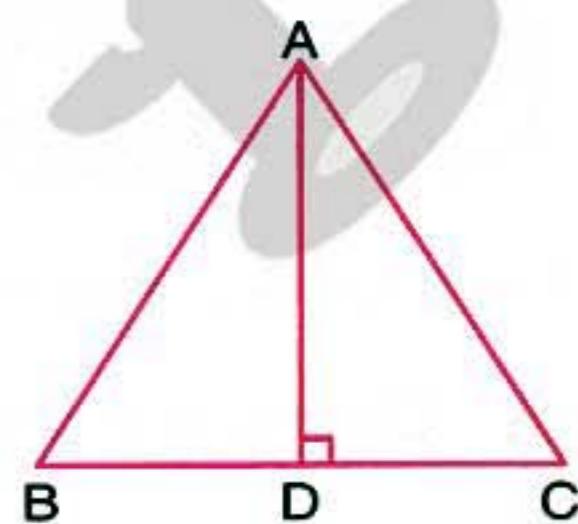
$$X - Y = \dots$$

(17) When tossing a coin once, the probability of getting a head = .....

(18)  $4.6789 \approx \dots$  (to the nearest thousandth)

(19) From the opposite figure :

$\overline{AD}$  is called .....



(20) If  $\frac{4}{8} = \frac{x}{24}$ , then  $x = \dots$

(21)  $\frac{1}{2} \div \frac{1}{12} = \dots$

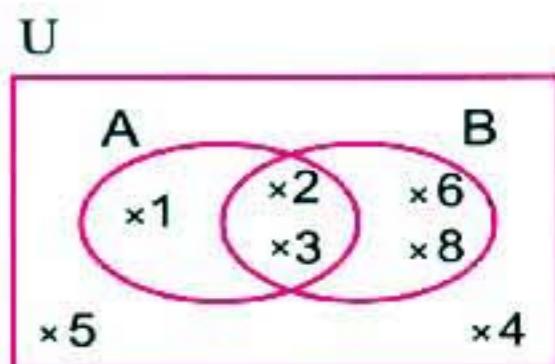
(22)  $\dots \times \frac{4}{5} = 1$

**3 Answer the following :**

(23) From the opposite Venn diagram , find :

[a]  $A \cap B = \dots$

[b]  $\bar{A} = \dots$



(24) A box contains identical balls where 5 are white, 9 are red and 6 are black. If one ball is chosen randomly , what is the probability that :

[a] The chosen ball is white ? .....

[b] The chosen ball is not black ? .....

(25) A truck can hold 125 boxes of oranges at a time. How many times are needed to deliver 4375 boxes by that truck ? (show steps)

(26) Draw ABC triangle in which

 $BC = 6 \text{ cm.}$  and  $AB = AC = 5 \text{ cm.}$ Draw  $\overline{AD} \perp \overline{BC}$  and find its length.**19****Beni Suef Governorate**Samsta Educational Directorate  
Maths Supervision

Answer the following questions :

**1 Choose the correct answer :**

( 1 ) The probability of the impossible event = .....

(  $\emptyset$  or zero or 1 or  $\frac{1}{3}$  )

( 2 ) The number of the altitudes of the triangle = .....

( 0 or 1 or 2 or 3 )

( 3 ) If  $X \subset Y$  , then  $X \cap Y = \dots$ ( X or Y or  $\emptyset$  or U )( 4 )  $46.432 \approx 46.43$  approximated to the nearest .....

( ten or 0.1 or 0.01 or 0.001 )

( 5 ) If  $\{3, 4\} = \{1 + y, 3\}$  , then  $y = \dots$ 

( 7 or 4 or 2 or 3 )

( 6 ) 40 days  $\approx \dots$  weeks.

( 4 or 6 or 5 or 7 )

( 7 )  $17.947 \approx \dots$  (to the nearest hundredth)

( 17.948 or 17.95 or 17.90 or 17.94 )

(8)  $\{2, 3\} \dots \{5, 7, 8\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(9)  $95.3 \times 100 = \dots$  (0.953 or 953 or 9530 or 9.53)

(10) As throwing a die once, then the probability of appearing a number less than 3 = ..... ( $\frac{1}{6}$  or  $\frac{1}{2}$  or  $\frac{1}{3}$  or  $\frac{2}{5}$ )

(11)  $1.7 \div 10 = \dots$  (17 or 0.17 or 1.7 or 0.017)

(12) 254 hours  $\simeq \dots$  days. (11 or 10 or 12 or 9)

(13) The chord which passes through the centre of the circle is called ..... (a diameter or a radius or a centre or a side)

(14)  $255 \div 25 = 2.55 \div \dots$  (2.5 or 0.25 or 25 or 2500)

**2 Complete the following :**

(15) If  $\{8, 6, 7\} = \{x, 8, 7\}$ , then  $x = \dots$

(16)  $7.64 \times 0.93 \simeq \dots$  (to the nearest thousandth)

(17) The midpoint of any diameter in a circle is ..... of the circle.

(18)  $57.35 + 21.53 = \dots \simeq \dots$  (to the nearest tenth)

(19)  $\{2, 3, 6, 12\} \cap$  the set of factors of the number 6 = .....

(20) If  $6 \in \{3, 5, 2x\}$ , then  $x = \dots$

**3 Answer the following :**

(21)  $6.7898 - 4.247 = \dots \simeq \dots$  (to the nearest thousandth)

(22)  $\frac{5}{7} \times 1\frac{2}{5} = \dots$

(23)  $7885 \div 1000 = \dots$

(24)  $26272 \div 821 = \dots$

(25) What is the number which is multiplied by 0.5 the product will be 33.86 ?  
.....

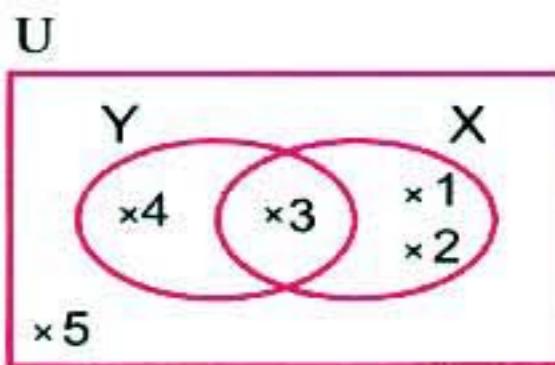
(26) Look at the opposite Venn diagram and find :

[a]  $X \cap Y = \dots$

[b]  $X \cup Y = \dots$

[c]  $X - Y = \dots$

[d]  $Y' = \dots$



(27) Draw the triangle ABC in which

$AB = BC = 6 \text{ cm.}$  and  $m(\angle B) = 120^\circ$

, then draw  $\overrightarrow{AD} \perp \overrightarrow{BC}$  which intersects it at D

, then find the length of  $\overline{AD}$

(28) A bag contains 3 white balls, 7 red balls and 5 yellow balls.

All the balls are equal in size. If a ball is drawn randomly.

[a] What is the probability that the drawn ball is white ? .....

[b] What is the probability that the drawn ball is not red ? .....

(29) A car covers equal distances in equal times. If this car covered

$24.73 \text{ km.}$  in one hour, how many km. are covered in  $2 \frac{1}{2} \text{ hours}$  ?

(30) A metal coin was thrown once, find the probability of appearing a head.

20

El-Menia Governorate

El-Menia Official Language School  
Maths Department



Answer the following questions :

1 Choose the correct answer :

(1)  $5.421 \times 100$    $52.41 \times 10$  ( $> \text{ or } = \text{ or } < \text{ or } \leq$ )

(2) If  $X \subset Y$ , then  $X \cap Y =$  ..... ( $\cup \text{ or } X \text{ or } Y \text{ or } \emptyset$ )

(3)  $\{3, 7\}$  .....  $\{1, 3, 7\}$  ( $\in \text{ or } \notin \text{ or } \subset \text{ or } \not\subset$ )

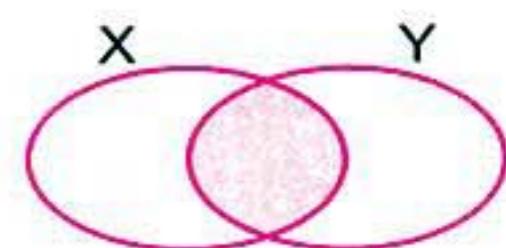
(4) The chord which passes through the centre of a circle is called ..... (diameter or radius or centre or side)

(5)  $A \cap \bar{A} =$  ..... ( $A \text{ or } U \text{ or } \emptyset \text{ or } \bar{A}$ )

(6) Every triangle has ..... altitudes. (1 or 2 or 3 or 4)

(7)  $312 \div 10 =$  ..... ( $3.12 \text{ or } 0.312 \text{ or } 31.2 \text{ or } 3120$ )

(8) When tossing a coin once, the probability of appearing a tail = ..... ( $1 \text{ or } \frac{1}{2} \text{ or } \frac{1}{3} \text{ or } \frac{1}{4}$ )



( 9 ) The shaded part in the opposite figure represents .....

(  $X \cap Y$  or  $X \cup Y$  or  $X - Y$  or  $Y - X$  )(10) The probability of sure event = ..... ( 0 or  $\frac{1}{2}$  or 1 or 2 )(11)  $0.3 \times 0.2 =$  ..... ( 0.6 or 0.06 or 0.006 or 6 )(12)  $82.487 \approx 82.5$  to the nearest .....

( tenth or unit or hundredth or thousandth )

(13)  $4 \times \frac{1}{4} =$  ..... ( 1 or 4 or 8 or 16 )(14)  $\frac{1}{2} \boxed{\quad} \frac{1}{3}$  ..... ( $<$  or  $>$  or  $=$  or  $\leq$ )**2 Complete each of the following :**(15) If  $\frac{2}{5} = \frac{a}{15}$  , then  $a =$  .....

(16) 3.002 kg. = ..... gm.

(17) If  $4 \in \{3 , x , 5\}$  , then  $x =$  .....(18)  $36.274 + 33.28 =$  .....  $\approx$  ..... (to the nearest  $\frac{1}{100}$  )(19)  $\frac{4}{12} \div \frac{6}{12} =$  .....

(20) A circle which its diameter length is 10 cm. , the length of its radius is ..... cm.

(21)  $4.5 \div 0.5 =$  .....(22)  $12.5 - 3.75 \approx$  ..... (to the nearest  $\frac{1}{10}$  )**3 Answer the following :**(23) Draw  $\triangle ABC$  in which $AB = 7$  cm. ,  $BC = CA = 6$  cm.

, then draw the line segment from C

that is perpendicular to  $\overline{AB}$ 

and find its length.

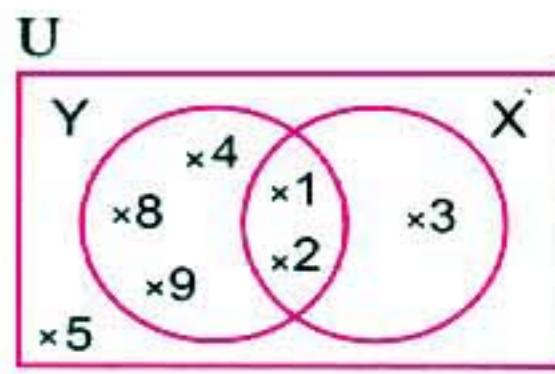
(24) From the opposite figure , find :

[a]  $X \cup Y = \dots$

[b]  $X \cap Y = \dots$

[c]  $X - Y = \dots$

[d]  $(X \cup Y) = \dots$



(25) Arrange in an ascending order :

$$0.6, \frac{1}{2}, 0.8 \text{ and } \frac{3}{4}$$

The order is : ..... , ..... , ..... and .....

(26) A box contains 5 white balls, 9 red balls and 6 black balls , all the balls are identical and equal size, if a ball is drawn randomly , what is the probability that the drawn :

[a] White ? .....

[b] Red ? .....

## 21 Souhag Governorate

Maths Supervision



Answer the following questions :

1 Choose the correct answer :

(1)  $2 \dots \{5, 2, 52\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(2)  $\frac{1}{8} \approx \dots$  (to the nearest hundredth) (0.125 or 0.12 or 0.13 or 1.0)

(3)  $806.7 \div 100 = \dots$  (80.67 or 8.067 or 80670 or 8067)

(4)  $98.7 \times 1000 = \dots$  (987.0 or 0.987 or 98700 or 9870)

(5)  $\emptyset \dots \{0\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(6)  $\frac{1}{2} \boxed{\quad} \frac{1}{3}$  ( $<$  or  $>$  or  $=$  or  $\leq$ )

(7)  $3.36 \text{ km.} = \dots \text{ m.}$  (3.36 or 33.6 or 336 or 3360)

(8) If  $6 \in \{3, 5, 2x\}$  , then  $x = \dots$  (2 or 3 or 4 or 5)

(9)  $\frac{5}{6} + \frac{2}{6} = \dots$  ( $\frac{5}{7}$  or  $\frac{7}{12}$  or  $\frac{7}{6}$  or  $\frac{3}{7}$ )

(10)  $9 \frac{3}{25} \approx \dots$  (to the nearest tenth) (0.9 or 9.2 or 9.1 or 9)

(11) A circle with a diameter length 8 cm. , then the length of its radius = ..... cm. (4 or 5 or 6 or 16)



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لمزيد من أعمالنا تفضل بزيارة موقعنا على الانترنت <https://www.zakrooly.com>

(12) The number of the altitudes in any triangle = .....

( 1 or 2 or 3 or 0 )

(13)  $48.2 \times 3.7$    $4.82 \times 37$ 

( &lt; or &gt; or = or ≠ )

(14) The number  $83.7694 \approx 83.77$  to the nearest .....(  $\frac{1}{10}$  or  $\frac{1}{100}$  or  $\frac{1}{1000}$  or  $\frac{1}{10000}$  )

## 2 Complete each of the following :

(15) .....  $\times 2 \frac{1}{5} = 1$ 

(16) The longest chord in a circle is called .....

(17) The probability of the sure event = .....

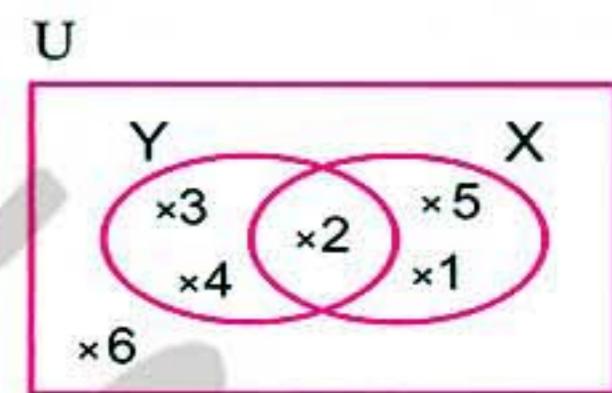
(18)  $3 \frac{1}{4} \times \frac{2}{3} =$  .....

(19) The chord which passes through the centre of the circle is called .....

(20)  $478.347 - 134.834 =$  .....(21)  $\{1, 2\} \cup \{2, 3, 4\} =$  .....(22)  $\{5, 6\} \cap \{4, 5\} =$  .....

## 3 Answer the following questions :

(23) Using the opposite Venn diagram , find :

[a]  $X \cup Y =$  .....[b]  $X \cap Y =$  .....[c]  $\bar{X} =$  .....[d]  $X - Y =$  .....(24) If the price of a piece of sweet is 2.25 pounds, what is the price of 25 pieces of the same kind ?  
.....

(25) Draw the triangle ABC where

AB = 4 cm. , BC = 5 cm.

and CA = 6 cm.

(26) A box contains 5 white balls, 4 blue balls and 2 red balls, find the probability of getting :

[a] A blue ball = .....

[b] A red ball = .....

**22 Qena Governorate**

 Qaft Educational Zone  
 Qaft Language School


Answer the following questions :

**1 Complete :**

( 1 )  $4.526 \times 100 = \dots$

( 2 ) The longest chord in the circle is called .....  
 ( 3 )  $\frac{3}{7} \div \frac{1}{2} = \dots$

( 4 )  $62.345 + 15.632 = \dots \approx \dots$  (to the nearest hundredth)

( 5 )  $4.32 \times 3.6 = \dots$

( 6 ) If  $A \subset B$  , then  $A \cup B = \dots$

( 7 )  $4.8 \div 10 = \dots$

( 8 ) The probability of the impossible event = .....

( 9 )  $5 \frac{2}{3} \times \frac{3}{17} = \dots$

(10) The number of altitudes of a triangle = .....

**2 Choose the correct answer :**

(11)  $\frac{1}{3} \times 3 = \dots$  ( 3 or  $\frac{1}{9}$  or 1 or 6 )

(12)  $0.06 \times 0.3 = \dots$  ( 18 or 0.018 or 0.18 or 0.09 )

(13)  $\{23\} \dots \{2, 3\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(14) A letter is selected randomly from the word "Ahmed" , the probability of selecting the letter A is ..... (  $\frac{1}{5}$  or  $\frac{2}{5}$  or  $\frac{3}{5}$  or  $\frac{4}{5}$  )

(15)  $62.38 \div 10 = \dots$  ( 623.8 or 62380 or 6.238 or 6238 )

(16)  $X \cup \bar{X} = \dots$  ( X or  $\bar{X}$  or U or  $\bar{U}$  )

(17)  $\frac{4}{7} \boxed{\quad} \frac{5}{9}$  ( $<$  or  $=$  or  $>$ )

(18) If  $7 \in \{3, 5, x\}$  , then  $x = \dots$  ( 3 or 5 or 7 or 8 )

(19) 4 ..... the set of digits of the number 3456  
 ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(20) The set of even numbers between 6 and 34 , then its type is .....  
 ( finite or infinite or empty )

(21) A circle of diameter length 6 cm. , then its radius length = ..... cm.  
( 6 or 12 or 3 or 2 )

(22) A bag has 5 red balls and 3 white balls , if a ball is drawn randomly , then the probability that the drawn ball is white = .....  
(  $\frac{3}{5}$  or  $\frac{3}{8}$  or  $\frac{5}{8}$  or  $\frac{5}{3}$  )

(23)  $0.74 \times 1000 =$  ..... ( 740 or 74 or 74000 or 0.074 )

(24) If  $\{3, 6, x\} = \{6, 2, 3\}$  , then  $x =$  ..... ( 3 or 6 or 9 or 2 )

(25)  $36.36 \div 9 =$  ..... ( 44 or 4.4 or 40.4 or 4.04 )

(26) If  $A \subset B$  , then  $A \cap B =$  ..... ( A or A or B or B )

**3 Answer the following :**

(27) Draw the circle M of radius length 4 cm.  
, then draw the diameter  $\overline{AB}$   
and the chord  $\overline{AC} = 6$  cm.

(28) Find the result of :

$$24.581 \div 5.23 = \dots$$

**23 Luxor Governorate**

Luxor Educational Directorate  
Maths Department



Answer the following questions :

**1 Choose the correct answer :**

( 1 ) If  $7 \in \{3, x, 5\}$  , then  $x =$  ..... ( 3 or 8 or 5 or 7 )

( 2 )  $76.518 \approx$  ..... (to the nearest hundredth)  
( 76.52 or 765.2 or 76.5 or 7652 )

( 3 )  $\frac{3}{4} \boxed{\quad} \frac{2}{3}$   
( > or < or = )

( 4 )  $5.748 \times 100 =$  ..... ( 57.48 or 0.5748 or 574.8 or 5748 )

( 5 ) The longest chord in the circle is called .....  
( radius or diameter or chord or centre )

( 6 )  $\emptyset \dots \{2, 5\}$   
(  $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$  )

(7)  $\frac{4}{5} \times \frac{1}{3} = \dots$  (  $\frac{1}{2}$  or  $\frac{12}{5}$  or  $\frac{4}{15}$  or  $\frac{5}{8}$  )

(8)  $537.1 \div 10 = \dots$  ( 5371 or 53.71 or 5.371 or 0.5371 )

(9) If  $X = \{2, 3, 5\}$  and  $Y = \{4, 3, 6\}$ , then  $X \cap Y = \dots$  ( {5} or {5, 2} or {3} or {5, 6} )

(10) Any triangle has ..... altitudes. ( 5 or 2 or 3 or 1 )

(11)  $0.1 \times 0.3 = \dots$  ( 0.4 or 0.3 or 0.13 or 0.03 )

(12) 5 .....  $\{1, 5, 3, 7\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(13)  $\frac{2}{5} \div \frac{1}{4} = \dots$  (  $\frac{8}{5}$  or  $\frac{6}{5}$  or  $\frac{5}{8}$  or  $\frac{2}{3}$  )

(14)  $\{2, 5, 6\} - \{6, 5, 3\} = \dots$  ( {5} or {5, 6} or {3} or {2} )

**2 Complete the following :**

(15)  $15.3689 - 12.1564 = \dots \simeq \dots$  (to the nearest thousandth)

(16) The altitudes of the acute-angled triangle intersect ..... the triangle.

(17) The probability of getting a head when tossing a coin once is .....

(18)  $16.78 \div 100 = \dots$

(19) If  $X = \{2, 7, 5\}$  and  $Y = \{3\}$ , then  $X \cup Y = \dots$

(20) A circle its diameter length is 8 cm., then its radius length is ..... cm.

(21)  $3 \times 0.4 = \dots$

(22)  $\{3, 5, 8\} - \{1, 5, 3, 6, 8\} = \dots$

**3 Answer the following :**

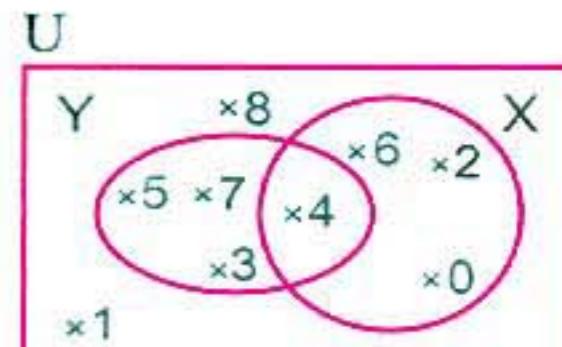
(23)  $3.148 + 5.231 = \dots \simeq \dots$  (to the nearest hundredth)

(24) If a die is tossed once, find the probability of :

- [a] Getting an even number = .....
- [b] Getting a number greater than 7 = .....

(25) Use the opposite Venn diagram to find :

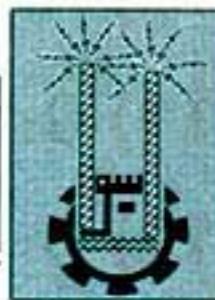
- [a]  $Y \cap X = \dots$
- [b]  $Y^c = \dots$



(26) Draw the equilateral triangle ABC where each side is equal to 3 cm. , and draw an altitude from the vertex C perpendicular to  $\overline{AB}$

## 24 Aswan Governorate

Aswan Educational Directorate  
M. M. Yaqoub Language School



Answer the following questions :

**1 Choose the correct answer :**

(1)  $4.763 \approx \dots$  (to the nearest hundredth)

(4.77 or 4.7 or 4.76 or 4.764)

(2)  $X \cap X' = \dots$

(X or  $X'$  or U or  $\emptyset$ )

(3)  $\frac{5}{7} \square \frac{5}{6}$

(< or = or > or  $\geq$ )

(4)  $9.82 \times 1000 = \dots$

(98.2 or 0.982 or 9820 or 982)

(5)  $1.8 \times 5 = \dots$

(9 or 9.5 or 1.85 or 18.5)

(6)  $\frac{1}{4} \times \frac{2}{3} = \dots$

( $\frac{3}{8}$  or  $\frac{1}{6}$  or  $\frac{2}{7}$  or  $\frac{3}{7}$ )

(7)  $5.8 \div 10 = \dots$

(5800 or 580 or 58 or 0.58)

(8) If  $X \subset Y$  , then  $X \cap Y = \dots$

(X or Y or  $\emptyset$  or  $X \cup Y$ )

(9)  $\frac{1}{2} \div \frac{1}{4} = \dots$

( $\frac{1}{8}$  or 4 or 2 or 8)

(10)  $\{35\} \dots \{1, 3, 5\}$

( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(11) If  $\{4, 7\} = \{x, 4\}$  , then  $x = \dots$

(4 or 7 or 3 or 47)

(12) A circle with diameter length 6 cm. , then its radius length = ..... cm.

(6 or 4 or 12 or 3)

(13) If  $5 \in \{3, 4 + x\}$  , then  $x = \dots$

(1 or 3 or 4 or 5)

(14) If  $\frac{2}{5} = \frac{x}{10}$  , then  $x = \dots$

(2 or 4 or 5 or 8)

**2 Complete :**

(15) The longest chord in a circle is called .....

(16)  $\{2, 5\} \cup \{7, 5\} = \dots$

(17) When tossing a die once, the probability of getting a number 5 is .....

(18)  $\frac{3}{4} \div \frac{3}{8} = \dots$

(19) The number of altitudes of any triangle = .....

(20) The probability of the certain event = .....

(21) The sum of the measures of the interior angles of any triangle = ..... °

(22) 0.35 kg. = ..... gm.

**3 Answer the following :**

(23) A box contains 3 white balls, 7 red balls and 5 yellow balls, all of equal size, one ball is chosen randomly. Find the probability of choosing :

[a] A white ball = .....

[b] Not yellow ball = .....

(24) Draw the equilateral triangle ABC  
whose side length = 5 cm.  
, then draw  $\overline{CD} \perp \overline{AB}$

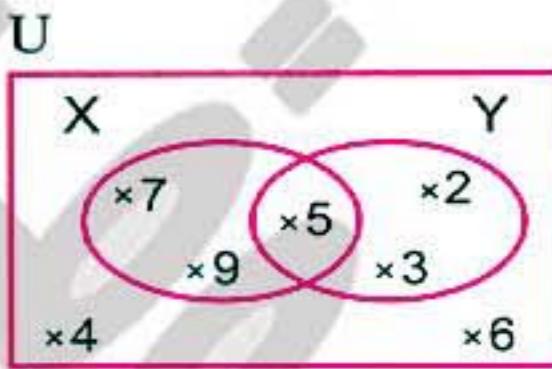
(25) If the price of a piece of sweet is 2.25 pounds, what is the price of 5 pieces of the same kind ?

The price = ..... = ..... pounds.

(26) From the opposite figure , find :

[a]  $X = \dots$

[b]  $Y - X = \dots$



25

South Sinai Governorate

Sinai Educational Zone  
Maths Inspection



Answer the following questions :

**1 Choose the correct answer :**

( 1 )  $98.7 \times 100 = \dots$

( 9.87 or 987 or 9870 or 0.987 )

95



هذا العمل حصري على موقع ذاكرولي التعليمي ولا يسمح بنشره في أي موقع آخر  
لمزيد من أعمالنا تفضل بزيارة موقعنا على الانترنت <https://www.zakrooly.com>

(2)  $736.592 \approx 736.59$  approximated to the nearest .....  
(unit or tenth or hundredth or thousandth)

(3) If  $\{2, 3, 4\} = \{3, 4, x\}$ , then  $x = \dots$  (1 or 2 or 3 or 4)

(4) Any chord passes through the centre of the circle is called a .....  
(straight line or diameter or radius or ray)

(5)  $11664 \div 216 = \dots$  (50 or 54 or 58 or 62)

(6)  $\{5\} - \{1, 2, 5\} = \dots$  ( $\{5\}$  or  $\{1\}$  or  $\{1, 2\}$  or  $\emptyset$ )

(7)  $37.4289 - 14.081 \approx \dots$  (to the nearest thousandth)  
(23.349 or 23.350 or 23.348 or 23.248)

(8) If  $X \subset Y$ , then  $X \cap Y = \dots$  ( $X$  or  $\{0\}$  or  $Y$  or  $\emptyset$ )

(9) The number of altitudes of any triangle is .....  
(1 or 2 or 3 or 4)

(10)  $\{1, 7\} \dots \{0, 1, 2, 3, 4, \dots\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(11)  $75.3 \div 100 = \dots$  (7530 or 753 or 7.53 or 0.753)

(12)  $\frac{1}{2} \boxed{\quad} \frac{1}{3}$  ( $\leq$  or  $<$  or  $>$  or  $=$ )

(13)  $5.45 \div 0.5 = \dots$  (1.9 or 19 or 1.09 or 10.9)

(14) The number of subsets of the set  $\{5\}$  is .....  
(0 or 1 or 2 or 3)

**2 Complete the following :**

(15)  $2.4 \text{ dm.} = \dots \text{ cm.}$

(16)  $\frac{1}{3} \times \frac{2}{5} = \dots$

(17) A circle whose diameter length is 4 cm., then the length of its radius is ..... cm.

(18)  $\{1, 2, 4\} - \{2, 4, 6\} = \dots$

(19) If  $\frac{b}{8} = \frac{15}{24}$ , then  $b = \dots$

(20) The longest chord in a circle is called .....

(21) If  $X = \{1, 2, 5, 7\}$  and  $Y = \{1, 5, 3\}$ , then  $X \cap Y = \dots$

(22) The probability of the certain event = .....

**3 Answer the following :**

(23) If the price of one metre of cloth is 6.45 pounds , then what is the price of 2.4 metres of cloth ?

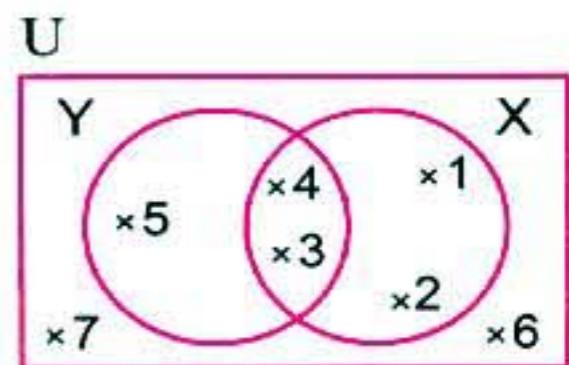
The price = .....

(24) By using the opposite Venn diagram ,  
find the following sets by listing method :

[a]  $X \cap Y = \dots$

[b]  $Y^c = \dots$

(25) Draw the triangle XYZ in which  
 $XY = YZ = 7 \text{ cm.}$  and  $XZ = 4 \text{ cm.}$



(26) A bag contains 5 white balls , 9 red balls and 6 black balls identically ,  
a ball is drawn blindly , then what is the probability that the drawn ball is  
white ?



**تفوقك في أي مذكرة عليها العلامة دي**  
**ذاكرولي**  
RaNia Sayed

## Examinations from Different Governorates 2018

## 1 Cairo Governorate – Mokattam Educational Directorate

## 1 Choose the correct answer:

1)  $4.257 \times 1000 = \dots$ . (425.7 or 42.57 or 42570 or 4257)

2) The number of altitudes of any triangle is ..... . (3 or 4 or 1 or 0)

3) The greatest decimal fraction formed from the digits 7, 5 , 9 , 1 , 6 is ..... . (0.15679 or 0.69571 or 0.97651 or 0.91567)

4) The set of odd numbers is ..... set. (a finite or an infinite or an empty)

5) The altitudes of the obtuse-angled triangle intersect at one point located ..... the triangle. (on or inside or outside)

6)  $5.4 + 10 = \dots$ . (54 or 540 or 0.54 or 0.054)

7)  $\emptyset \dots \{6, 7, 11\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

8)  $79.238 \simeq \dots$  (to the nearest  $\frac{1}{100}$ ). (100 or 79.3 or 79.24 or 79.248)

9) When tossing a metallic coin once, then the probability of appearing of a head = ..... . ( $\frac{1}{2}$  or 1 or 0 or  $\emptyset$ )

10) The reciprocal of  $1 \frac{2}{7}$  is ..... . ( $\frac{9}{7}$  or  $\frac{7}{2}$  or  $\frac{7}{9}$  or 1)

11) The set of digits of the number 18 ..... {18 , 88}. ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

12)  $\frac{2}{3} \dots \frac{4}{5}$ . ( $<$  or  $>$  or  $=$  or  $\leq$ )

13)  $\{5 , 6\} - \{4 , 5 , 6\} = \dots$ . ( $\{5 , 6\}$  or  $\{4\}$  or  $\{4 , 5 , 6\}$  or  $\emptyset$ )

14) 30 months  $\simeq \dots$  years. (360 Or 2.5 or 3 or 4.2)

## 2 Complete the following:

15)  $5.7 \times 1.2 = \dots$ .

16) If  $\{3, 6\} = \{3 , x + 1\}$ , then  $x = \dots$ .

17)  $17.947 \simeq 17.9$  is approximated to the nearest ..... .

18) The probability of the certain event = ..... .

19) The longest chord in the circle is called ..... .

20) Draw the Venn diagram of the following sets:

$A = \{1, 3, 2, 6\}$ ,  $B = \{1, 4, 6, 3\}$ , then find  $A \cap B = \dots$

21)  $725.3 + \dots = 7.253$

22) The triangle in which there are two equal sides is called .....

### 3 Answer the following:

23) If  $U = \{2, 3, 4, 5, 6, 7, 9\}$ ,  $X = \{2, 3, 5\}$  and  $Y = \{5, 7, 9\}$ , then find:

a)  $X \cup Y = \{\dots\}$

b)  $X' = \{\dots\}$

24) If the length of a rectangle is 4.6 cm and its width is 3.2 cm. Calculate the perimeter of the rectangle.

25) A box contains 6 white balls, 3 blue balls and 2 red balls. A ball is chosen randomly, find the probability of getting:

a) a blue ball =.....

b) a white or red ball =.....

c) a green ball =.....

26) Draw the triangle ABC in which  $AB = 6$  cm,  $BC = 5$  cm,  $AC = 4$  cm, then find the perimeter of the triangle.

The drawing

## 2 Cairo Governorate – Hadayek Elkoba Educational Directorate

## 1 Complete:

- 1) The number  $5.669 \approx 5.7$  is approximated to the nearest .....
- 2)  $5\frac{1}{2} + 3\frac{2}{3} = \dots$
- 3) If  $X \subset Y$ , then  $X \cap Y = \dots$
- 4) If  $\{4, 8\} = \{1 + y, 4\}$ , then  $y = \dots$
- 5) 36 days  $\approx \dots$  weeks
- 6) The longest chord in the circle called .....
- 7)  $20.6354 \times 100 = \dots \approx \dots$  (to the nearest tenth)
- 8) If  $\frac{x}{8} = \frac{15}{24}$ , then  $x = \dots$

## 2 Choose the correct answer:

- 1)  $\{5\} \dots \{55, 15\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\subsetneq$ )
- 2) 8.3 tons = ..... kg (8300 or 830 or 0.83 or 0.083)
- 3)  $2.25 + 1.5 = \dots$  (1.5 or 15 or 0.15 or 500 )
- 4) The decimal form of the fraction  $\frac{3}{20}$  is ..... (3.2 or  $\frac{1}{7}$  or 0.3 or 0.15 )
- 5) 3 ..... the set of the odd numbers. ( $\in$  or  $\notin$  or  $\subset$  or  $\subsetneq$ )
- 6) Any triangle has ..... altitudes (1 or 2 or 3 or 4)
- 7) A circle with a diameter length 8 cm. then the length of its radius = ..... cm. (4 or 5 or 6 or 16)
- 8)  $\emptyset \dots \{8, 7\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\subsetneq$ )
- 9) The altitudes of the obtuse-angled triangle is located ..... the triangle. (outside or inside or on or center)
- 10) Tossing a regular coin, the probability of landing on a head = ..... ( $\frac{1}{3}$  or  $\frac{1}{2}$  or  $\frac{3}{4}$  or 1)
- 11)  $\{8\} - \{2, 5, 8\} = \dots$  ( $\emptyset$  or {8} or {2, 5} or {2, 5, 8})
- 12)  $572.4 \text{ cm} \approx \dots \text{ m}$  (6 or 50 or 60 or 572)
- 13) The set of odd numbers is a/an ..... set (finite or null or infinite or {1, 3, 5})
- 14) If  $6 \in \{3, 5, 2x\}$ , then  $x = \dots$  (6 or 1 or 2 or 3)

## 3 Answer the following:

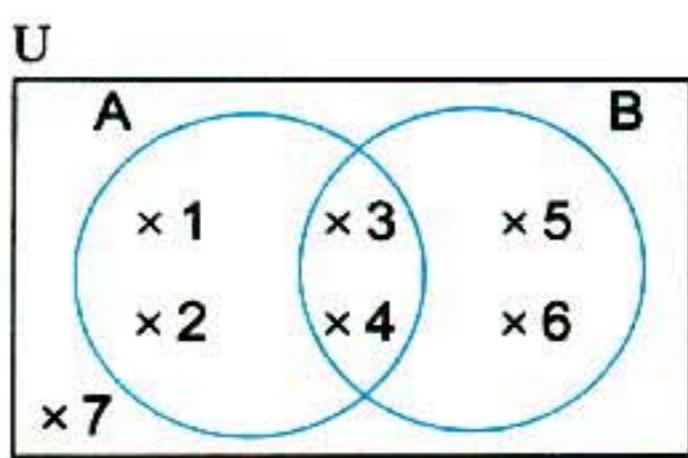
1) From the opposite Venn diagram, find:

a)  $A \cup B = \dots$

b)  $A \cap B = \dots$

c)  $A - B = \dots$

d)  $A' = \dots$



2) A bag contains 2 red balls, 3 black balls and 4 white balls. All the balls are identical and equal in volume. A ball is drawn randomly, calculate the probability that:

a) The drawn ball is red .....

b) The drawn ball is white or black .....

3) Draw  $\triangle XYZ$  which is equilateral and its side length = 4 cm, then draw a circle of center X and radius length 4 cm.

The drawing



4) Then, from the drawing, complete:

a)  $\overline{XY}$  is called ..... in the circle X.

b)  $\overline{XZ}$  is called ..... in the circle X.

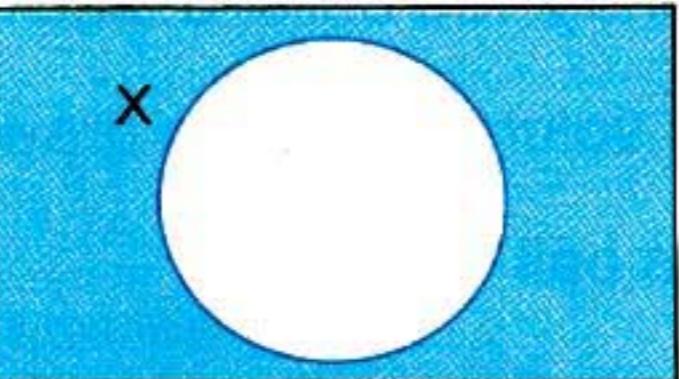
c)  $\overline{YZ}$  is called ..... in the circle X.

d) The perimeter of  $\triangle XYZ$  = ..... cm.

3

Cairo Governorate – Rod El-Farag Educational Directorate

## 1 Choose the correct answer:

1)  $\{3, 4\} \dots \{3, 5, 6\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\subsetneq$ )2) 48 days  $\approx$  ..... weeks (7 or 6 or 8 or 5)3)  $7.8246 \approx 7.825$  to the nearest ..... (units or thousandth or tenth or hundredth)4) The shaded part represents ..... 

5) All the diameters of the same circle are ..... in length.

(equal or different or parallel or perpendicular)

6) If  $X \subset Y$ , then  $X \cup Y = \dots$  ( $X$  or  $Y$  or  $X - Y$  or  $\emptyset$ )7)  $4.7 \text{ m} = \dots \text{ cm}$  (47 or 0.47 or 470 or 407)8)  $\frac{1}{4} \times 20 = \dots$  (3 or 5 or 4 or 6)9)  $1 \dots \{11\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\subsetneq$ )

10) Any triangle has ..... altitudes. (3 or 4 or 1 or 2)

11)  $295 \div \dots = 0.295$  (10 or 100 or 1000 or 1)12) For any set  $X$ ,  $X \cap X' = \dots$  ( $X'$  or  $U$  or  $X$  or  $\emptyset$ )13)  $9.18 + 0.54 = \dots + 54$  (91.8 or 0.918 or 918 or 9.18)14)  $\frac{2}{7} \quad \frac{3}{6}$  ( $>$  or  $=$  or  $<$  or  $\geq$ )

## 2 Complete:

1) The probability of the certain event is .....

2)  $32.614 \approx \dots$  (to the nearest hundredth)3)  $\{7, 5\} \cap \emptyset = \dots$ 4)  $2\frac{3}{4} = \dots \approx \dots$  (to the nearest tenth)5)  $5 \in \{1, x\}$ , then  $x = \dots$ 6)  $\frac{8}{5} + \frac{4}{5} = \dots$

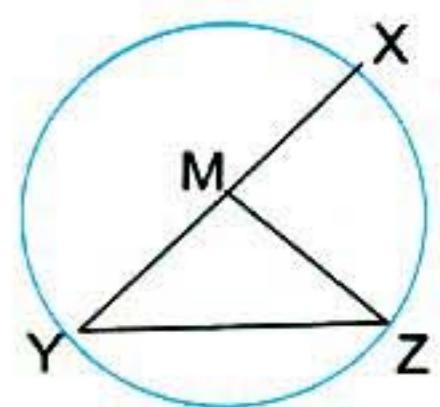
## 7) In the opposite figure:

If the radius  $MY = 3 \text{ cm}$

and  $YZ = 4 \text{ cm}$ , then

a)  $\overline{YZ}$  is called .....

b) The perimeter of the triangle  $MYZ = \dots \text{ cm}$



## 3 Answer the following:

1) Find the result:

a)  $6.5 \times 0.43 = \dots$

b)  $6.534 + 0.121 = \dots$

2) Draw the triangle ABC in which  $AB = AC = 5 \text{ cm}$ ,  $BC = 7 \text{ cm}$ , then draw the altitude  $\overline{AD}$  on  $\overline{BC}$

.....  
.....  
.....

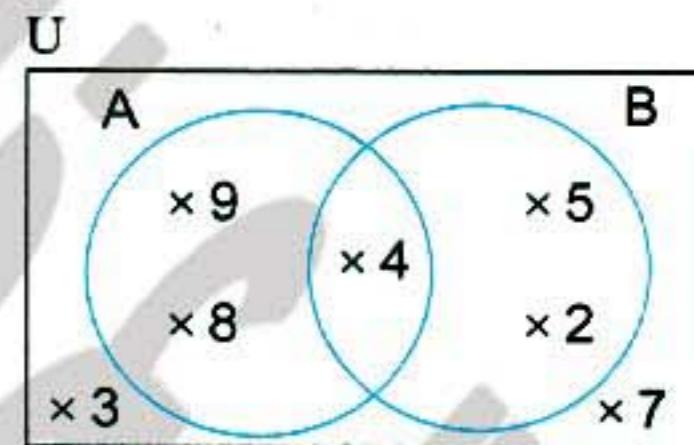
3) In the opposite Venn diagram, find:

1)  $A \cap B = \dots$

2)  $A \cup B = \dots$

3)  $A - B = \dots$

4)  $A' = \dots$



4) As tossing a die once the probability of getting:

a) an even number = .....

b) a number less than 1 = .....

4 Cairo Governorate - Mathematics Supervision for Governmental and Distinguished Governmental Language. School

## 1 Choose the correct answer:

1)  $63.594 \approx 63.6$  to the nearest ..... (0.001 or 0.01 or 0.1 or 10)

2)  $\frac{3}{4} < \dots$  ( $\frac{1}{3}$  or  $\frac{1}{2}$  or  $\frac{2}{3}$  or 1)

3) The chord which passes through the center of a circle is called ..... (diameter or radius or center or side )

4)  $537.1 + 10 = \dots$  (5.371 or 53.71 or 537.1 or 5371)

5)  $\{2\} \dots \{1, 2, 3\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

6)  $55.241 \times 100 = \dots$  (0.55241 or 5.5241 or 5524.1 or 55241)

7) 3.125 kilogram = ..... grams (3125 or 312.5 or 31.25 or 0.3125)

## 2 Choose the correct answer:

8) If  $X = \{1, 2, 3\} \cap \{2, 4, 6\}$ , then  $3 \dots X$ . ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

9) The probability of the impossible event = ..... ( $\emptyset$  or 0 or 0.5 or 1)

10)  $4\frac{1}{2} \times 2\frac{2}{3} = \dots$  (12 or  $8\frac{1}{3}$  or  $5\frac{2}{5}$  or  $\frac{17}{6}$ )

11)  $\frac{5}{7} + \frac{5}{9} = \dots$  ( $\frac{7}{9}$  or  $\frac{9}{7}$  or  $\frac{25}{63}$  or 1)

12) Every triangle has ..... altitude(s). (1 or 2 or 3 or 4)

13)  $3\frac{1}{8} \approx \dots$  (to the nearest hundredth) (3 or 3.10 or 3.12 or 3.13)

14)  $355 \div 18 = 3.55 + \dots$  (0.18 or 1.8 or 18 or 180)

## 3 Complete each of the following:

15)  $8657 \text{ cm} \approx \dots \text{ meters.}$

16)  $\frac{3}{4} \times 8\frac{2}{3} = \dots$  (in decimal)

17) If  $X = \{2, 5, 7\}$ ,  $Y = \{2, 3, 5\}$ , then  $X \cup Y = \dots$

18) In the opposite figure: AB is called ..... in the circle

19)  $6.25 + 2.5 = \dots$

20) The midpoint of any diameter in the circle is called ..... of the circle.

21) As tossing a fair die once, the probability of getting an even number = .....

22)  $2.253 + 12.652 = \dots$



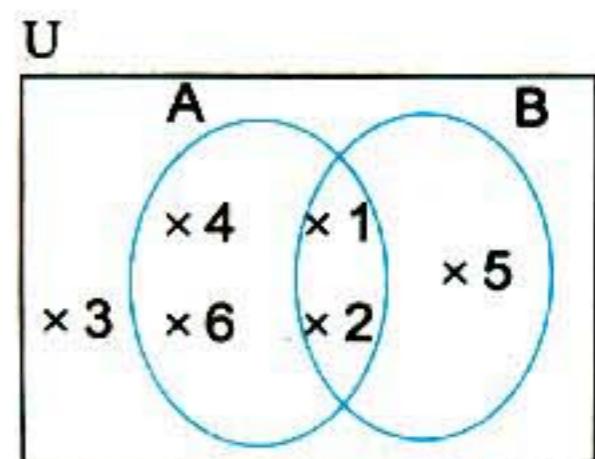
4) 23) A card has been randomly drawn out of 10 cards numbered from 1 to 10, find the probability of getting:

- A prime number
- An even number greater than 6

24) A man bought a TV for L.E 2000. He paid L.E 440 of its cost and paid the remainder on monthly installments , each of them equals L.E 32.5. Find the number of installments.

25) From the opposite Venn diagram, find:

- $A \cup B$  .....
- $A - B$  .....



26) Draw the triangle ABC in which  $BC = 6 \text{ cm}$  and  $AC = AB = 5 \text{ cm}$  and draw  $\overline{AD}$  perpendicular to  $\overline{BC}$ , then find the length of  $\overline{AD}$

The drawing



تفوقك في أي مذكرة عليها العلامة دي  
RaNia SaYed

[www.facebook.com/groups/zakrolypr5](https://www.facebook.com/groups/zakrolypr5)

## 5 | Giza Governorate – El-Haram Directorate – Fadl Lang. Schools

## 1 Choose the correct answer:

1)  $\{3, 4\} \dots \{34\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

2) If :  $\{6, 7\} = \{6, x + 1\}$ , then  $x = \dots$ . (7 or 6 or 5 or 4)

3)  $27.64 \times \dots = 276.4$  (10 or 100 or 1000 or 10000)

4) The number of altitudes of any triangle = ..... (0 or 1 or 2 or 3)

5)  $63.534 \approx \dots$  (to the nearest  $\frac{1}{10}$ ) (64 or 63.6 or 63.5 or 63.53)

6)  $1\frac{1}{4} + \frac{1}{4} = \dots$  ( $\frac{1}{4}$  or 4 or 5 or  $\frac{1}{5}$ )

7)  $2.25 \div 1.5 = \dots$  (15 or 1.5 or 0.15 or 0.015)

8)  $2\frac{1}{3} \square \frac{9}{4} \dots$  ( $<$  or  $>$  or  $=$  or  $\leq$ )

9) Zero .....  $\emptyset$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

10) If the length of the diameter of a circle is 10 cm, then its radius length = ..... cm. (20 or 10 or 5 or 2.5)

11)  $63.5 \text{ m} = \dots \text{ cm}$  (635 or 6350 or 63500 or 635000)

12)  $\{1, 2, 3, \dots\}$  is ..... set (a finite or an empty or an infinite or an odd number)

13)  $2.7 \times 0.5 = \dots$  (135 or 13.5 or 1.35 or 0.135)

14) The number of subsets of the set  $\{a, b\}$  equals ..... (1 or 2 or 3 or 4)

## 2 Complete:

15) If  $X \subset Y$ , then,  $X \cap Y = \dots$

16) If:  $8 \in \{3, 7, x\}$ , then  $x = \dots$

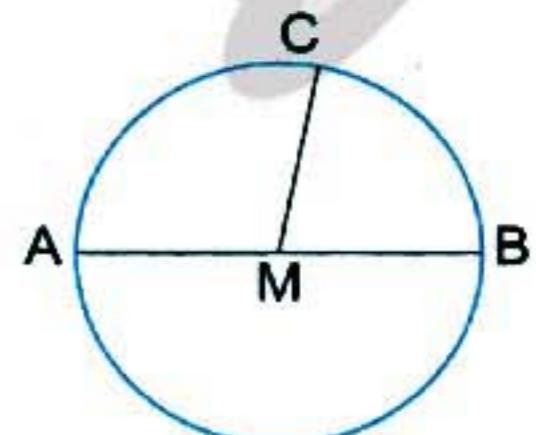
17)  $815.4 \div 100 = \dots$

18) The longest chord in a circle is called .....

19) The probability of the certain event = .....

20) In the opposite figure:

MC is called a ..... in the circle M



21)  $3.453 + 4.342 = \dots \approx \dots$  (to the nearest  $\frac{1}{100}$ )

22)  $\frac{3}{4} \approx 0.8$  (to the nearest .....

## 3 Answer the following questions:

23) By using the opposite figure:

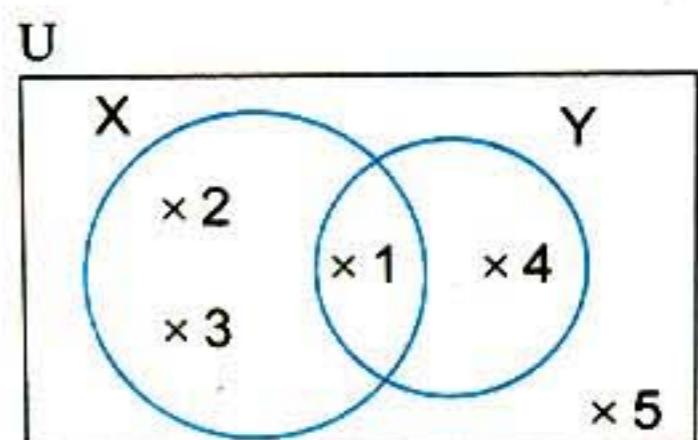
Complete:

1)  $X \cap Y = \dots$

2)  $X - Y = \dots$

3)  $X \cup Y = \dots$

4)  $\bar{Y} = \dots$



24) Rearrange the following in descending order:

$\frac{1}{2}, 0.8, \frac{1}{4}, 0.3$

25) Draw  $\triangle ABC$  where  $BC = 6 \text{ cm}$  and  $AB = AC = 5 \text{ cm}$ . then draw  $\overline{AD}$  perpendicular from A to  $\overline{BC}$ .

26) A bag contains 5 white balls, 6 black balls and 2 red balls. All balls are equal in size, a ball is drawn randomly. Calculate the probability that the drawn ball is:

1) black .....

2) green .....

6

## Giza Governorate – Maths Inspectorate

## 1 Choose the correct answer:

1)  $3 \in \{x, 5\}$ , then  $x = \dots$  (1 or 2 or 3 or 4)

2)  $\frac{3}{4} \dots \frac{1}{2}$  ( $<$  or  $>$  or  $=$ )

3) The radius length of a circle is 5 cm, then length of its diameter is ..... cm. (5 or 10 or 2.5 or 7)

4)  $0.07 \times 0.9 = \dots$  (0.00063 or 0.0063 or 0.063)

5)  $3.75 \times 100 = \dots$  (37.5 or 375 or 3750 or 37500)

6)  $\frac{5}{6} + 1 \frac{1}{6} = \dots$  ( $\frac{5}{7}$  or  $\frac{2}{6}$  or  $\frac{3}{7}$  or  $\frac{7}{6}$ )

7) 3.2 Km = ..... m (32 or 320 or 3200 or 32000)

## 2 Choose the correct answer:

1)  $\{1, 2, 3\} \cap \{2, 5\} = \dots$  ({1} or {2} or {3} or {5})

2)  $4.72 \times 10 \dots 0.472 \times 100$  ( $<$  or  $>$  or  $=$ )

3) The probability of appearance of an even number when tossing a die once = ..... (1 or  $\frac{3}{6}$  or  $\frac{2}{6}$  or 0)

4) 43 days  $\simeq$  ..... weeks (6 or 7 or 8 or 9)

5) If  $\frac{x}{8} = \frac{15}{24}$ , then  $x = \dots$  (3 or 5 or 8)

6)  $5.45 + 0.5 = \dots$  (1.9 or 1.09 or 10.9 or 109)

7) The smallest number from the given ones ..... (0.111 or 0.12 or 0.123 or 1.023)

## 3 a) Complete the following:

1)  $26.274 + 23.28 = \dots \simeq \dots$  (to the nearest  $\frac{1}{100}$ )

2)  $\{2, 5, 7\} \cup \{2, 8, 5\} = \dots$

3)  $(3.25 + 9.75) + 13 = \dots$

4) The number of altitudes of the right-angled triangle is .....

b) Complete by putting the suitable symbol: ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

5) 5 .....  $\{15, 55\}$       6)  $\{3, 5\} \dots \{53, 35\}$

7) 15 .....  $\{1, 3, 5, 7, \dots\}$       8)  $\{7\} \dots \{4, 6, 7\}$

## 4 Answer the following:

1) Find the area of the rectangle whose length is 6.4 cm and width is 2.5 cm

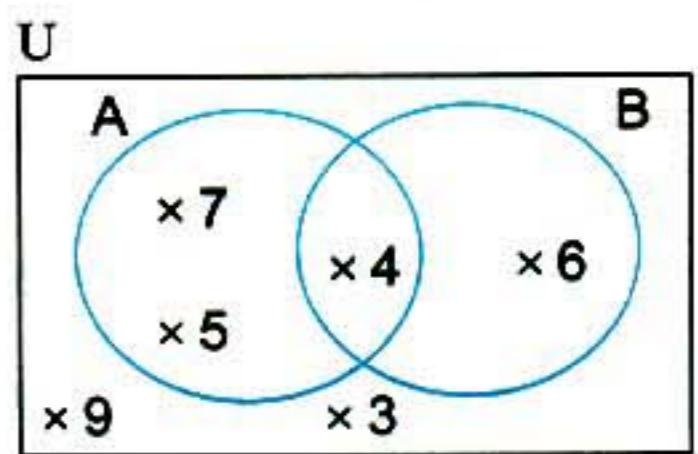
2) From the opposite figure, find by the listing method each of the following:

a)  $A \cup B = \dots$

b)  $A \cap B = \dots$

c)  $B - A = \dots$

d)  $A' = \dots$



3) A box contains 5 white balls , 9 red balls and 6 black balls. If a ball is drawn randomly, **find the probability that the drawn ball is :**

a) white ball

b) not black one

.....  
.....  
.....  
.....

4) Draw the triangle ABC in which  $AB = 4 \text{ cm}$  ,  $BC = 6 \text{ cm}$  and  $AC = 8 \text{ cm}$ .

.....  
.....  
.....

7

## Giza Governorate – Maths Inspectorate

## 1 Choose the correct answer:

1)  $7645.3 \div 100 = \dots$  (764.53 or 76.453 or 76453 or 7.6453)

2)  $3.75 \times 1000 = \dots$  (37.50 or 375 or 3750 or 375000)

3) The probability of an impossible event = ..... (0 or 1 or 0.5 or Ø)

4)  $255 \div 25 = 2.55 + \dots$  (25 or 0.25 or 2.5 or 2500)

5) 5.4 Tons = ..... kg (5400 or 540 or 0.454 or 54000)

6) 8 ..... {7, 5, 8} (∈ or ∉ or ⊂ or ⊄)

7) Ø ..... {1, 2} (∈ or ∉ or ⊂ or ⊄)

8) {3, 4} = {1 + y, 4}, then y = ..... (7 or 4 or 2 or 5)

9)  $3\frac{1}{2} \div \frac{7}{12} = \dots$  (6 or  $\frac{8}{12}$  or  $\frac{50}{12}$  or 4)

10)  $46.432 \approx 46.43$  approximated to the nearest ..... (ten or 0.1 or 0.01 or 0.001)

11) If  $X \subset Y$ , then  $X \cap Y = \dots$  (U or X or Y or Ø)

12) If  $\frac{2}{5} = \frac{a}{15}$ , then a = ..... (3 or 5 or 6 or 7)

## 2 Complete each of the following:

13)  $3.278 + 2.2 = \dots \approx \dots$  (to the nearest tenth)

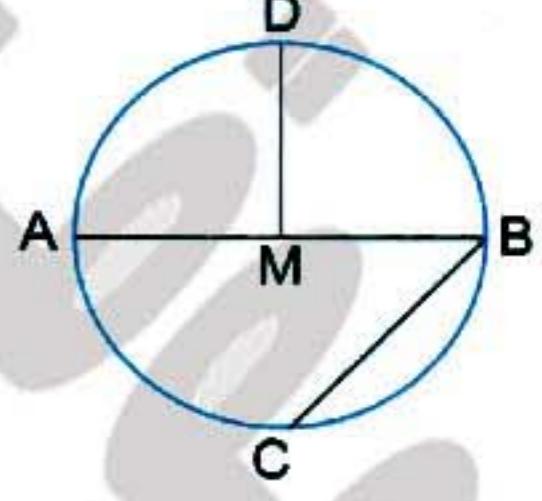
14)  $\{5, 6\} \cap \{4, 5\} = \dots$

## 15) From the opposite figure:

a) BC is called ..... in the circle M

b) ..... is a diameter

c) MD = ..... = .....



## 3 Answer the following:

16)  $11655 + 555 = \dots$

17)  $67.5 - 24.38 = \dots \approx \dots$  (to the nearest unit)

18)  $\{3, 4, 7\} \cup \{2, 4, 7\} = \dots$

19)  $\frac{3}{4} \times \frac{10}{6} = \dots$

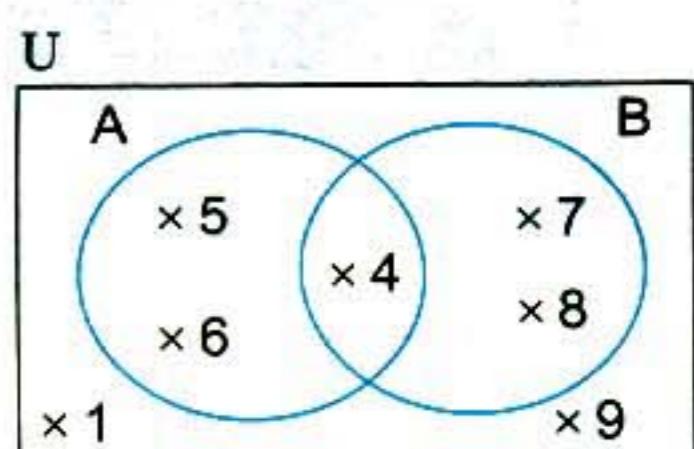
20)  $\{4, 5, 2\} - \{2, 7, 1\} = \dots$

21)  $0.532 \times 3.2 = \dots$

22) The probability of the sure event = .....

23) Using the Venn diagram, list each of the following:

- a)  $A \cap B = \dots$
- b)  $A \cup B = \dots$
- c)  $A - B = \dots$
- d)  $B' = \dots$



24) If the price of a piece of sweet is L.E. 3.75, what is the price of 25 pieces of the same kind?

.....

.....

.....

25) A box contains 4 blue balls, 3 red balls and 7 yellow balls, a ball is drawn randomly from the box, find the probability of drawing

- a) blue ball
- b) not red ball
- c) yellow ball

.....

.....

.....

26) Draw  $\triangle ABC$  where  $AB = AC = 5$  cm and  $BC = 4$  cm, then draw  $\overline{AD}$  perpendicular from A to  $\overleftrightarrow{BC}$

.....

.....

.....

8

## Giza Governorate – Modern Narmer Language School

## 1 Choose the correct answer:

1) {6} ..... {2 , 4 , 6} ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

2) The chord which passes through the center of the circle is called .....  
(diameter or radius or center or side)

3) The number 875.356 to the nearest hundredth is .....  
(875 or 875.4 or 875.35 or 875.36)

4)  $10 \times 47.6$  .....  $4.76 \times 100$  ( $<$  or  $>$  or  $=$  or  $\leq$ )

5) The number of altitudes in a right angled-triangle is ..... (0 or 1 or 2 or 3)

6)  $189.32 + 100 =$  ..... (18932 or 18.932 or 1.8932 or 1893200)

7)  $\frac{1}{3} \times \frac{3}{4} =$  ..... ( $\frac{1}{3}$  or  $\frac{1}{2}$  or  $\frac{1}{4}$  or 1)

8) The number of subsets of {4 , 5 , 6} is ..... (1 or 2 or 8)

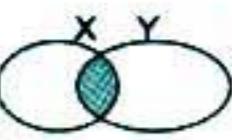
9) If  $6 \in \{2x, 5\}$ , then  $x =$  ..... (4 or 2 or 3)

10) In any triangle, there are ..... heights (1 or 2 or 3)

11) 37 days  $\simeq$  ..... weeks (4 or 5 or 6 or 7)

12) As throwing a fair die once, the probability of getting the number 4 equals ..... ( $\frac{1}{4}$  or  $\frac{1}{6}$  or  $\frac{1}{3}$ )

13) If the radius length in a circle is 4 cm, then the diameter is = ..... cm (44 or 8 or 2)

14)  The shaded part represents ..... ( $X \cup Y$  or  $X \cap Y$  or  $X - Y$ )

15)  $\frac{5}{8}$  is ..... 0.564 (more than or less than or equal to)

16) {75} ..... {7 , 5} ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

17)  $9.64 + 4 =$  ..... (241 or 2.96 or 30.56 or 2.41)

18) The probability of a sure event is = ..... (0 or 1 or 2)

## 2 Complete:

1) The longest chord in a circle is called ..... .

2)  $\{1 , 2 , 3 , 4\} \cap$  the set of prime number = ..... .

3)  $2 \frac{1}{3} + \frac{5}{6} =$  .....

4)  $\{ 2 , 6 , 8 \} - \{ 6 , 7 , 8 \} =$  .....

5) The triangle in which the measures of angles are  $30^\circ$ ,  $60^\circ$ ,  $90^\circ$  is called ..... triangle.

6) 48.8 dm ..... cm.

3) If  $U = \{1, 2, 3, 4, 5, 6, 7\}$ ,  $X = \{1, 3, 4\}$ , and  $Y = \{4, 6, 7\}$

Represent these sets using **Venn diagram**, and then complete the following:

1)  $X \cap Y = \{ \dots \}$

2)  $X \cup Y = \{ \dots \}$

3)  $X^c = \{ \dots \}$

4)  $Y^c = \{ \dots \}$

5)  $(X \cup Y)^c = \{ \dots \}$

6)  $(Y - X)^c = \{ \dots \}$

4) 1) Draw  $\triangle ABC$  in which  $AB = 8 \text{ cm}$ ,  $BC = 6 \text{ cm}$ ,  $AC = 6 \text{ cm}$ , then name the type of the triangle according to its sides.

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.....

2) A bus covers 32.5 km in one hour, how many kilometers dose it cover in 0.5 of an hour?

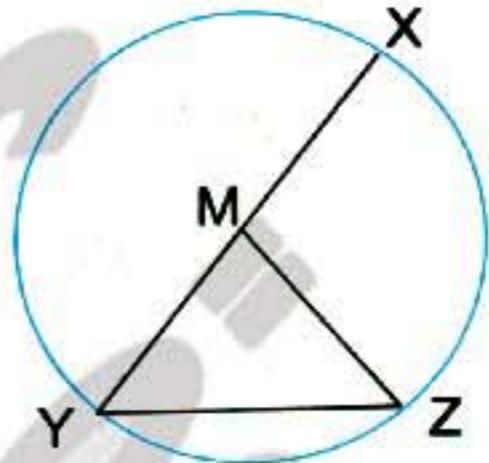
.....  
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3) Complete the following using the opposite diagram:

a)  $MX = \dots = \dots$

b)  $\overline{YZ}$  is called .....

c) The longest chord is .....



9

Alexandria Governorate – El-Montazah Zone – Brilliance Language School

**1 Choose the correct answer:**

1) If  $7 \in \{5, 6, x + 1\}$ , then  $x = \dots$ . (4 or 6 or 5 or 8)

2) The length of the diameter of a circle whose radius length is 5 cm. equals  $\dots$ . (10 cm or 2.5 cm or 10 m or 5 cm)

3)  $65.988 \times \dots = 6598.8$  (10 or 1000 or 100 or 0)

4) Probability of getting number 7 on a die is  $\dots$ . (certain or zero or impossible or  $\frac{1}{2}$ )

5)  $23\frac{3}{8} = \dots$ . (as a decimal) (23.8 or 23.3 or 23.375 or 23.357)

6)  $\frac{1}{7} \times 49 = \dots$ . (7 or 49 or 77 or  $\frac{1}{7}$ )

7)  $2.546 \text{ km} = \dots \text{ dm}$ . (2546 or 25.46 or 25460 or 254.6)

8)  $2\frac{3}{7} \dots 2\frac{4}{5}$ . ( $>$  or  $<$  or  $+$  or  $=$ )

9) If  $7 \in \{7, 5\} \cap \{3, 4, x\}$ , then  $x = \dots$ . (7 or 4 or 3 or 5)

10)  $647.5 + \dots = 0.6475$ . (10 or 100 or 0.1 or 100)

11)  The shaded part represents  $\dots$ . ( $A \cup B$  or  $A = B$  or  $A - B$  or  $A \cap B$ )

12) Diameter is a  $\dots$  that passes through the center of the circle. (side or radius or chord or line segment)

13) The type of the triangle whose angles are  $100^\circ$ ,  $50^\circ$  and  $30^\circ$  is  $\dots$ -angled triangle. (acute or isosceles or right or obtuse)

14)  $X - X = \dots$ . ( $\in$  or  $\emptyset$  or  $X$  or  $Y$ )

**2 Complete the following:**

15)  $A \cap A' = \dots$ ,  $A \cup A' = \dots$ .

16) The right-angled triangle has  $\dots$  altitudes.

17) The sum of the interior angles of the triangle =  $\dots$  °.

18) The probability of the impossible event =  $\dots$ , probability of certain event =  $\dots$ .

19) The measure of the two acute angles in the right-angled triangle =  $\dots$  °.

20)  $\emptyset \cap \{0\} = \dots$

21)  $984.374 \approx \dots$  (approximated to the nearest  $\frac{1}{10}$ )

22) The perimeter of the equilateral triangle whose side length is 7 cm = ..... cm.

**3 Find the result of:**

23) a)  $63.7 \times 1.5 = \dots$

.....

b)  $35.84 + 1.12 = \dots$

.....

24) A box contains some cards numbered from 1 to 9 , if a card is drawn randomly,

**find the probability of getting:**

a) a card that carries an even number = .....

b) a card that carries a prime number = .....

c) a card carries a number divisible by 3 = .....

**25) Find the result of:**

a)  $A = \dots$

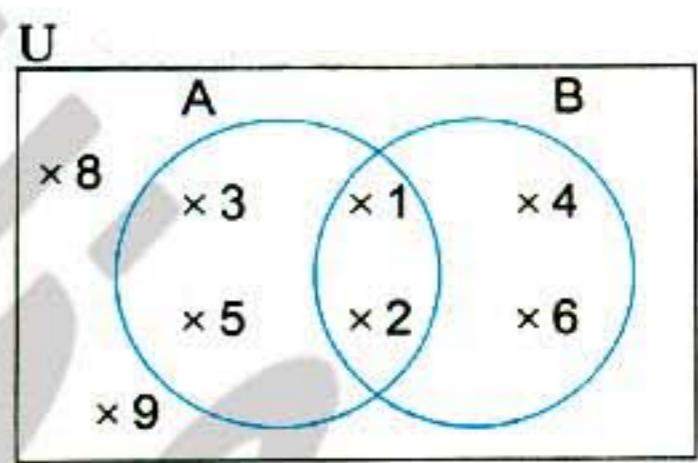
b)  $B = \dots$

c)  $A - B = \dots$

d)  $A \cap B = \dots$

e)  $A \cup B = \dots$

f)  $A' = \dots$



26) Draw circle M with diameter AB = 8 cm and draw its chord AC with length 3 cm, then draw BC and find its length.

The drawing

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10

## Alexandria Governorate – Mid-Zone Administration

## 1 Choose the correct answer:

1) If  $2 \in \{0, 1 + x\}$ , then  $x = \dots$ . (1 or 2 or 0 or 3)

2) The length of the radius =  $\dots \times$  the length of the diameter. (2 or  $\frac{1}{2}$  or 4 or  $\frac{1}{4}$ )

3)  $\frac{1}{4} \times \dots = \frac{1}{8}$  (2 or  $\frac{1}{2}$  or 4 or  $\frac{1}{4}$ )

4)  $1.7538 \times 100 = \dots$  (175.38 or 17.538 or 1753.8 or 17538)

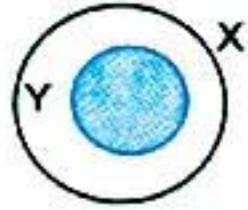
5) The decimal form of this fraction  $\frac{2}{25}$  is  $\dots$ . (0.08 or 0.008 or 0.8 or 8)

6) In any triangle there are at least  $\dots$  acute angles. (1 or 2 or 3 or 4)

7) If  $\frac{3}{5} = \frac{M}{15}$ , so  $M = \dots$  (3 or 15 or 9 or 18)

8) The suitable symbol which expresses the shaded part in the opposite figure is  $\dots$ .

((X ∩ Y) or (X ∪ Y) or (X ⊂ Y) or (Y ⊂ X))



9) 43 days  $\simeq \dots$  weeks. (4 or 6 or 7 or 8)

10)  $5.45 + 0.5 = \dots$ . (1.9 or 1.09 or 10.9 or 19)

11) The altitudes of the acute-angled triangle intersect at one point  $\dots$  the triangle.  
(on or outside or inside or parallel)

12)  $X \cap X' = \dots$ . (X or  $X'$  or  $\emptyset$  or U)

13)  $9 \frac{3}{25} = \dots$  (to the nearest tenth) (9.03 or 9.1 or 9.3 or 9)

14)  $\emptyset \dots \{4, 2\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

## 2 Complete the following:

15) The number of subsets for the set {2, 3} is  $\dots$ .

16)  $\dots + 10 = 3.721 \times 10$

17) The probability of getting number 10 on the face of a die when it is thrown =  $\dots$ .

18) The estimation of the quotient of  $4.372 \div 2.13$  is  $\dots$ .

19) The longest chord in a circle is called  $\dots$ .

20)  $99.995 \simeq \dots$ . (to the nearest hundredth)

21)  $8.25 + 8 \frac{1}{4} = \dots$ .

22)  AM is called  $\dots$ .

3) 23) Complete  $(0.345 + 7.5) \times 4 = \dots$

24) Find the length of the rectangle whose area is  $9.43 \text{ cm}^2$  and its width is  $2.45 \text{ cm}$  to the nearest tenth.

25) A bag contains 5 white balls and 9 red balls. If one ball is chosen randomly what is the probability that the chosen ball is white?

26) Draw the triangle ABC in which  $AB = 7 \text{ cm}$ ,  $BC = CA = 6 \text{ cm}$ , then draw the line segment from point C that is perpendicular to AB at D and find its length.

The drawing

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## Qalubia Governorate – Mathematics Supervision

## 1 Choose the correct answer:

1)  $3 \dots \{3, 13, 23, 33\}$ . ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

2)  $3.75 \times 1000 = \dots$ . (0.375 or 0.0375 or 3750 or 37.5)

3)  $\frac{1}{3} \times \frac{3}{4} = \dots$ . ( $\frac{1}{3}$  or  $\frac{3}{4}$  or  $\frac{1}{2}$  or 0.25)

4) The perimeter of the equilateral triangle whose side length is 3.2 cm = ..... . (9 or 9.2 or 9.6 or 9.4)

5) 43 days  $\simeq \dots$ . (to the nearest week) (4 or 5 or 6 or 7)

6) If  $\frac{a}{3} = \frac{5}{15}$ , then  $a = \dots$ . (4 or 5 or 1 or 2)

7)  $14.4 \times 10 \dots 144$ . ( $>$  or  $<$  or  $=$  or otherwise)

8)  $\emptyset \dots \{5, 6\}$  ( $\subset$  or  $\subset$  or  $\in$  or  $\notin$ )

9)  $31.295 + 21.61 \simeq \dots$ . (to the nearest  $\frac{1}{100}$ ) (52.905 or 52.90 or 52.91 or 52.92)

10)  $\{1, 3, 5\} \cap \{2, 4, 6\} = \dots$ . ( $\{1, 2\}$  or  $\emptyset$  or  $\{4, 6\}$  or  $\{2, 4, 6\}$ )

11)  $\frac{7}{9} + 1\frac{1}{9} = \dots$ . ( $\frac{8}{9}$  or  $\frac{10}{9}$  or  $\frac{7}{10}$  or  $\frac{9}{10}$ )

12) If  $5 \in \{4 + x, 3\}$ , then  $x = \dots$ . (1 or 2 or 3 or 4)

13) The number of the altitudes in any triangle = ..... . (1 or 2 or 3 or 4)

14) If the length of the radius of a circle is 3 cm, then the length of its diameter = ..... cm. (3 or 6 or 9 or 12)

## 2 Complete the following:

15) The set of the digits of the number 7353 is ..... .

16)  $2.64 \times 0.2 = \dots$ .

17) At throwing a fair die once. Then the probability of the appearance of the number 5 is ..... .

18)  $3.002 \text{ kg} = \dots \text{ gram}$ .

19)  $3\frac{1}{8} \simeq \dots$ . (to the nearest  $\frac{1}{10}$ )

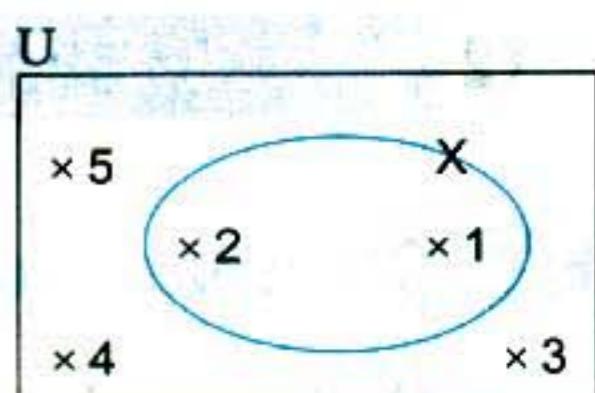
20)  $\frac{14}{5} = \frac{\dots}{10}$ .

## 21) By using the opposite Venn diagram:

Complete:

a)  $U = \dots$

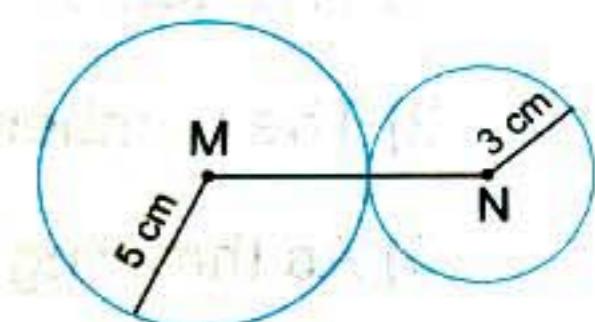
b)  $X' = \dots$



## 22) In the opposite figure:

M and N are two circles.

Then the length of MN = ..... cm.



## 3 Answer the following questions:

23) Write down all the subsets for the set  $A = \{3, 7\}$ .

.....  
.....  
.....

24) If  $X = \{3, 4, 5\}$ ,  $Y = \{5, 6\}$ , then  $X \cup Y = \dots$ , $X - Y = \dots$ 25) The probability of a pupil's success in an exam equals  $\frac{7}{10}$ , then the probability of his failure equals .....26) Draw the triangle ABC in which  $AB = BC = CA = 5$  cm .تفوقك في أي مذكرة عليها العلامة دي  
RaNia SaYed[www.facebook.com/groups/zakroolypr5](https://www.facebook.com/groups/zakroolypr5)

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## Menofia Governorate – Maths Department

## 1 Choose the correct answer:

1) The number of months in half year = ..... . (6 or 3 or 5 or 9)

2) The number of subsets of the set {4 , 5} equals ..... . (2 or 3 or 4 or 9)

3) As throwing a fair die once, then the probability of getting the number 5 equals = ..... . ( $\frac{1}{2}$  or  $\frac{1}{6}$  or  $\frac{5}{6}$  or  $\frac{2}{3}$ )

4) If  $X \subset Y$ , then  $X - Y =$  ..... . (X or Y or  $\emptyset$  or U)

5) The number 276.5327 to the nearest thousandth = ..... . (277 or 276.533 or 276.54 or 276.5)

6) The smallest fraction from the given ones is ..... . ( $\frac{1}{3}$  or  $\frac{5}{8}$  or  $\frac{2}{9}$  or  $\frac{2}{5}$ )

7) If  $\{7 , 10\} \subset \{10 , x + 4\}$ , then  $x =$  ..... . (3 or 4 or 5 or 6)

8)  $\{9\} \dots \{99\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

9) If  $X = \{ 1 , 4 , 5 \} \cap \{5 , 3 , 7\}$ , then  $1 \dots X$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

10) If  $\{3 , 6\} = \{1 + x , 3\}$ , then  $x =$  ..... . (2 or 3 or 4 or 5)

11) To draw a circle of diameter length 12 cm, then the opening distance of compasses should be ..... cm. (12 or 6 or 9 or 24)

12) If M is a circle whose diameter is 8 cm where MA = 7 cm, then the point A is located ..... the circle. (inside or outside or on or otherwise)

13)  $\frac{2}{5} = \frac{a}{15}$ , then  $a =$  ..... . (6 or 12 or 9 or 4)

14) The quotient of dividing  $5.45 \div 0.5 =$  ..... . (1.9 or 1.09 or 10.9 or 109)

## 2 Complete each of the following:

15)  $99.995 =$  ..... . (the nearest hundredth)

16) 5.4 tons = ..... kg.

17)  $\frac{3}{8} \times \frac{2}{9} =$  ..... .

18) If  $X \cap Y = Y$ , then .....  $\subset$  ..... .

19) The number of the altitudes of the obtuse-angled triangle is ..... .

20) The chord of the circle which passes through its center is ..... .

21)  $25.25 + 0.25 = \dots$

22)  $3.75 \times 1000 = \dots$

**3 Answer the following questions:**

23) Arrange the following numbers ascendingly:

$$\frac{1}{4}, 0.8, 0.4, \frac{1}{2}, \frac{3}{4}$$

.....

.....

.....

24) Represent the two sets A and B by Venn diagram:

$$A = \{1, 2, 3, 6\}, B = \{2, 3\},$$

$$\text{then find } A \cap B = \dots, A \cup B = \dots$$

25) Draw  $\triangle XYZ$  which is equilateral and its side length = 4 cm. Draw a circle of center x and radius length 4 cm.

.....

.....

.....

26) A bag contains 5 red balls, 8 black balls and 7 white balls, all of them are identical and equal in volume. A ball is drawn randomly, calculate the probability that:

1) The drawn ball is black = .....

2) The drawn ball isn't green = .....

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## Gharbia Governorate – Gharbia Educational Directorate

## 1 Choose the correct answer:

1) 10 halves ..... 20 quarters. ( $<$  or  $>$  or  $=$ )

2)  $35.7 + 100 = \dots$ . (0.357 or 3570 or 357)

3) The longest chord in a circle is called ..... . (radius or diameter or center)

4)  $(A \cap B) \dots A$ . ( $\subset$  or  $C$  or  $\in$ )

5)  $2\frac{1}{3} \times \dots = 1$ . ( $\frac{3}{7}$  or  $\frac{7}{3}$  or  $2\frac{1}{2}$ )

6)  $X \cap X' = \dots$ . ( $\emptyset$  or  $U$  or  $X$ )

7)  $6.25 + 2.5 = 62.5 + \dots$ . (250 or 25 or 0.25)

## 2 Choose the correct answer:

8)  $2.5 \times 53.8 \dots 0.25 \times 5.38$  ( $<$  or  $>$  or  $=$ )

9)  $24.637 \approx \dots$  (to the nearest hundredths) (24.64 or 24.63 or 24.6)

10)  $\{5, 7\} - \{3, 5, 8\} = \dots$ . ( $\emptyset$  or  $\{5, 3, 8\}$  or  $\{7\}$ )

11) If A and B are disjoint sets, then  $A - B = \dots$ . ( $\emptyset$  or A or B)

12) The number of altitudes in any triangle is ..... . (1 or 2 or 3)

13)  $538.7 \text{ cm} \approx \dots \text{ m}$ . (6 or 5.387 or 5)

14) If  $X \subset Y$ , then  $X \cup Y = \dots$ . (X or Y or  $\emptyset$ )

## 3 Complete the following:

15)  $3\frac{1}{2} + \frac{7}{12} = \dots$ .

16)  $3.56 \text{ km} = \dots \text{ m}$

17)  $\{2, 4, 6\} \cap \{2, 3, 5, 7\} = \dots$ .

18) A circle the length of its radius is 5 cm, then the length of its diameter is ..... cm.

19) The probability of impossible event = ..... .

20) The altitudes of any triangle intersect at ..... point (s)

21) If  $a \in \{1, 3, 5\} \cap \{2, 3, 7\}$ , then  $a = \dots$ .

22)  $43.6 \div 4 = \dots$ .

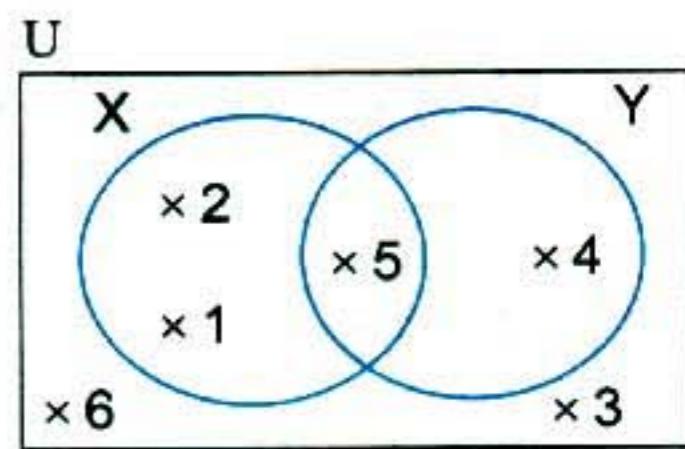
## 4 Answer the following questions:

23) If the price of one meter of cloth is L.E. 27.5. What is the price of 3 meters of same kind?

.....  
.....  
.....

24) From the opposite Venn diagram. Find by listing method:

- 1)  $X \cap Y = \{ \dots \}$
- 2)  $X \cup Y = \{ \dots \}$
- 3)  $X - Y = \{ \dots \}$
- 4)  $X' = \{ \dots \}$



25) Draw  $\Delta ABC$  in which  $AC = 5$  cm,  $AB = 4$  cm, and  $BC = 3$  cm, then draw its altitude from B on  $\overline{AC}$ .

.....  
.....  
.....

26) As throwing a fair die once, find the probability of :

- Appearing of a prime number.
- Appearing of a number less than or equal to 6
- Appearing of an even prime number
- Appearing of a number that is not divisible by 3

14

## Dakahlia Governorate – Maths Supervision

## 1 Choose the correct answer from between brackets:

1)  $235 + 15 = 23.5 + \dots$  (1.5 or 0.15 or 150)

2)  $\frac{8}{9} = \frac{a}{18}$ , then  $a = \dots$  (4 or 16 or 27)

3)  $50 \text{ cm}^2 = \dots \text{ dm}^2$  (0.05 or 50 or 0.5)

4)  $\{3\} \dots \{1, 2, 3\}$ . ( $\in$  or  $\subset$  or  $\subseteq$ )

5) The probability of success of a pupil is  $\frac{4}{5}$ , then the probability of his failure is ..... (1 or 0.2 or 0.1)

6) 39 days  $\approx$  ..... weeks. (5 or 6 or 7)

7)  $2\frac{1}{2} + \frac{1}{4} = \dots$  (5 or 10 or 4)

## 2 Complete the following:

8) The probability of the sure event is .....

9)  $X \subset Y$ , then  $X \cap Y = \dots$

10) The number of the altitudes of the right-angled triangle is .....

11) The perimeter of a square =  $\frac{1}{5}$  meter, then its side length = ..... cm

12)  $12.5 \times \dots = 1.25$

13) 15 tenths = ..... tens.

## 3 Choose the correct answer:

14)  $\emptyset \cup X = \dots$  ( $\emptyset$  or  $X$  or  $U$ )

15)  $\{3, x - 1\} = \{3, 5\}$ , then  $x = \dots$  (6 or 4 or 3)

16)  $\frac{8}{9} > \dots$  ( $\frac{7}{8}$  or  $\frac{9}{10}$  or  $\frac{19}{20}$ )

17) The line segment in which one endpoint is at the center of the circle and the other end point lies on it is called a ..... (chord or radius or diameter)

18)  $\{2, 1, 17\} \dots$  the set of digits of the number 2117. (= or  $\subset$  or  $\subseteq$ )

19)  $X \subset Y$ , then  $X - Y = \dots$  ( $X$  or  $Y$  or  $\emptyset$ )

20)  $25 \times 0.1 \dots 25 + 0.1$  (= or  $>$  or  $<$ )

#### **4 Answer the following questions:**

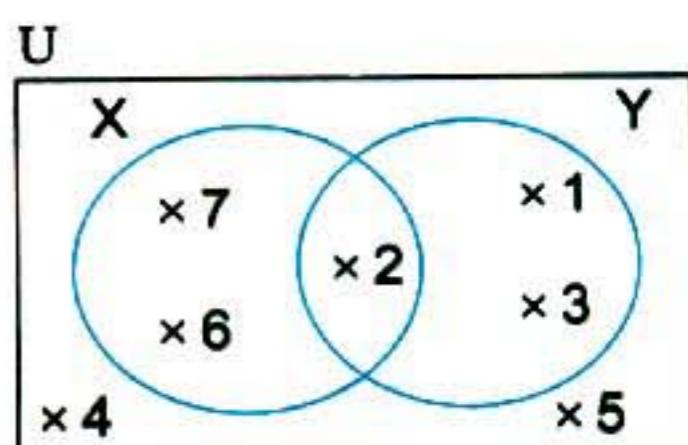
**21) From the opposite Venn diagram. Find by listing method:**

$$1) X \cup Y = \{ \dots \}$$

$$2) X \cap Y = \{ \dots \}$$

$$3) X - Y = \{ \dots \}$$

$$4) (X \cup Y)^c = \{ \dots \}$$



**22)** A box contains 3 blue balls, 4 red balls and 5 green balls, all balls are identical and equal in size if a ball is drawn randomly, what is the probability that the drawn ball is:

**1) blue**  **2) not blue**

**3) blue or red** **4) black**

**23) Find (by steps):**

$2.8905 + 1.23 = \dots$

(approximated to nearest tenths)

**24)** Ahmed bought 35 books, if the price of each book is L.E. 7.5, find the total price of all the books approximated to (the nearest pound). (show steps)

**25) Draw the equilateral triangle ABC whose side length = 6 cm, then:**

- 1) Draw  $\overline{AD} \perp \overline{BC}$
- 2) Calculate the perimeter of  $\triangle ABC$ .

## 15 Kafr El-Sheikh Governorate – Educational Directorate Maths Inspection

## 1 Complete the following:

- 1)  $1.775 \times 0.15 \approx \dots$  to the nearest hundredth.
- 2) The probability of the sure event = .....
- 3) If  $\frac{2}{3} = \frac{16}{a}$ , Then  $a = \dots$
- 4) The number of subsets of the set {2 , 6} is .....
- 5)  $5 \frac{1}{2} + 3 \frac{2}{3} = \dots$
- 6) The longest chord in the circle is called .....
- 7) If  $\{a , 5 , 8\} = \{b , 4 , 8\}$ , then  $(a + b) = \dots$
- 8) If  $X = Y$ , then  $X - Y = \dots$

## 2 Choose the correct answer:

- 9)  $4 \frac{1}{8} \times 2 \frac{2}{3} = \dots$  (0 or 10 or 11 or 111)
- 10)  $\{73\} \dots \{7 , 3\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )
- 11) The number of altitudes of any triangle is ..... (0 or 1 or 2 or 3)
- 12) In a class, there are 40 pupils, 25 of them are boys and the rest is girls,  
the probability of choosing a girl is ..... ( $\frac{3}{8}$  or  $\frac{5}{8}$  or  $\frac{3}{5}$  or 1)
- 13)  $155.241 \times 100 \dots 522.4 \times 10$  ( $<$  or  $>$  or  $=$  or  $\leq$ )
- 14) A circle of radius length 4 cm, then its diameter = ..... cm. (1 or 2 or 4 or 8)
- 15) If  $X = \{2 , 5 , 6\} \cap \{3 , 5\}$ , then  $X \dots \{3 , 5\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )
- 16) If  $\{7 , 10\} \subset \{10 , x + 4\}$ , then  $x = \dots$  (10 or 7 or 5 or 3)
- 17) 43 days  $\simeq \dots$  (to the nearest week). (5 or 6 or 7 or 8)
- 18)  $m \dots \{maths\}$ . ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )
- 19)  $4.25 + \dots = 8 \frac{1}{2}$  (2 or 12.75 or  $\frac{1}{4}$  or 0.5)
- 20)  $2.4 \text{ dm} = \dots \text{ cm.}$  (240 or 24 or 0.24 or 0.024)
- 21)  $37440 \div 234 = \dots$ . (16 or 106 or 160 or 1600)
- 22) If  $6 \in \{3 , 5 , 2x\}$ , then  $x = \dots$ . (2 or 3 or 4 or 5)

## 3 Answer the following questions:

23) The area of a rectangle =  $10.25 \text{ m}^2$ , and its length is  $4.1 \text{ m}$ , find the width and the perimeter of this rectangle.

.....  
.....  
.....

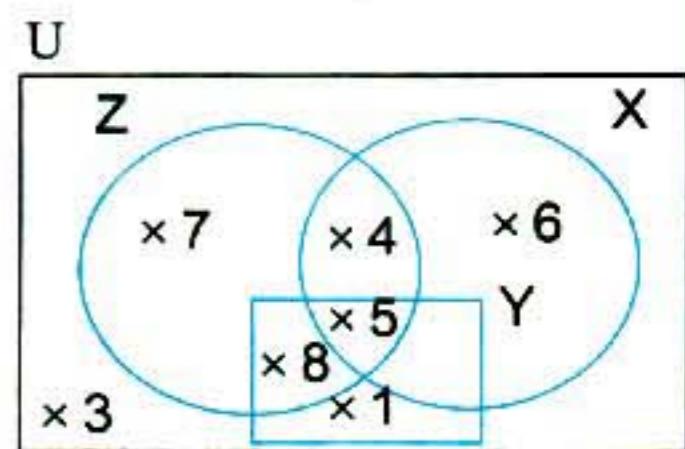
24) Look at the opposite figure, then complete:

1)  $X \cup Y = \{ \dots \dots \dots \}$

2)  $Z \cap Y = \{ \dots \dots \dots \}$

3)  $X - Z = \{ \dots \dots \dots \}$

4)  $(Z \cup X)^c = \{ \dots \dots \dots \}$



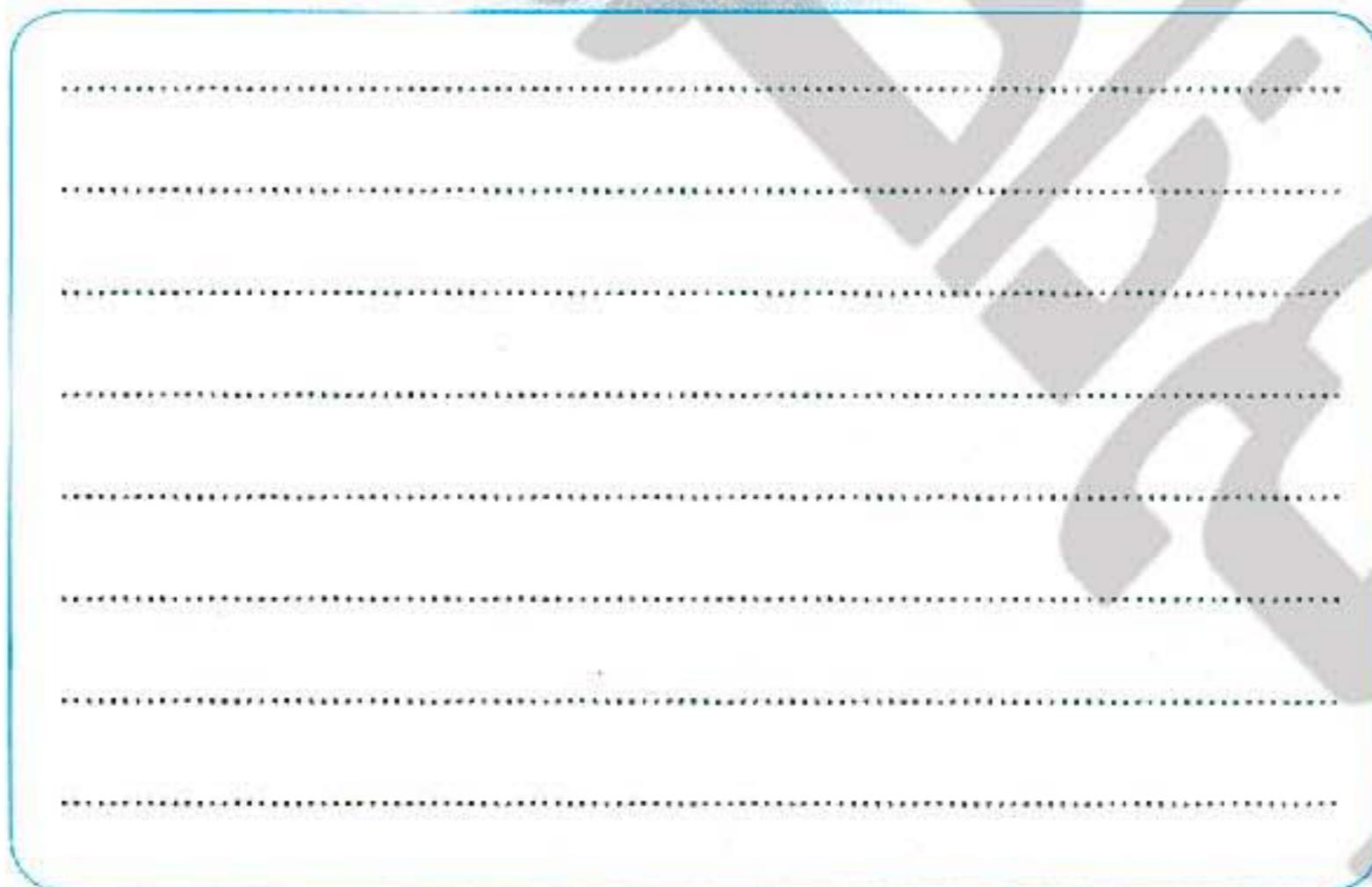
25) Arrange the following fractions in ascending order:

$0.6, \frac{2}{5}, 0.8, \frac{3}{4}$

The order is: ..... , ..... , ..... , .....

26) Draw  $\Delta ABC$  in which  $AB = 3 \text{ cm}$ ,  $BC = 4 \text{ cm}$ ,  $AC = 5 \text{ cm}$ , M is the midpoint of  $\overline{AC}$ , then draw a circle M with radius length  $2.5 \text{ cm}$ .

The drawing



## 16 Beheira Governorate – Rashid Educational Zone Maths Supervision

## 1 Choose the correct answer from between the brackets:

1)  $13.5 + 10 = \dots$  (135 or 13.5 or 1.35 or 0.135)

2)  $\emptyset \dots \{0\}$  ( $\in$  or  $\notin$  or C or  $\subset$ )

3) The diameter length of the circle whose radius is 4 cm = ..... cm (2 or 4 or 6 or 8)

4)  $3.27 + 2.4 = \dots + 24$  (327 or 32.7 or 3.27 or 0.327)

5) If  $\{3, 4\} = \{1 + x, 4\}$ , then  $x = \dots$ . (7 or 4 or 2 or 5)

6)  $526.347 \approx 526.35$  is approximated to the nearest ..... . (0.1 Or 0.01 or 0.001 or unit)

7)  $3\frac{1}{2} + 14 = \dots$ . (4 Or  $\frac{1}{2}$  or  $\frac{1}{4}$  or  $\frac{2}{7}$ )

8) If  $\frac{x}{3} = \frac{14}{21}$ , then  $x = \dots$ . (2 or 4 or 7 or 8)

9) If  $Y \subset X$  then  $Y \cap X = \dots$ . (X Or Y or  $\emptyset$  or U)

10) Number of altitudes of any triangle is ..... . (0 Or 1 or 2 or 3)

11) 3 kg = ..... tons. (3000 Or 0.3 or 300 or 0.003)

12) 39 days  $\approx$  ..... to the nearest week. (4 Or 5 or 6 or 7)

13)  $5.35 + 0.5 = \dots$ . (1.7 or 1.07 or 10.7 or 107)

14)  $\{2, 3\} - \{3, 5\} = \dots$ . ( $\{5\}$  or  $\{2\}$  or  $\{3\}$  or  $\emptyset$ )

## 2 Complete the following:

15)  $22902 + 347 = \dots$

16) The colored section in the opposite figure represents ..... . 

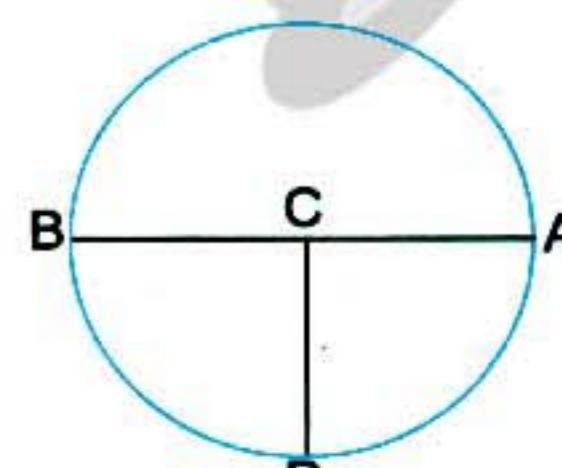
17) All radii of the same circle are ..... .

18)  $2.4 \times 0.07 = \dots$ .

19) If the probability that a pupil passes an exam is  $\frac{8}{10}$ , then the probability that this pupil fails is ..... .

20)  $\frac{2}{5} < \frac{2}{x} < 1$  so all possible values of (x) are ..... .

21)  $\{2, 4, 7\} \cup \{1, 4, 7\} = \dots$ .

22) In the opposite figure BC is a ..... in the circle. 

## 3 Find the result:

23) A family consumes 6.5 kg of meat monthly each of L.E. 125.5.

Calculate what the family pays to the nearest pound.

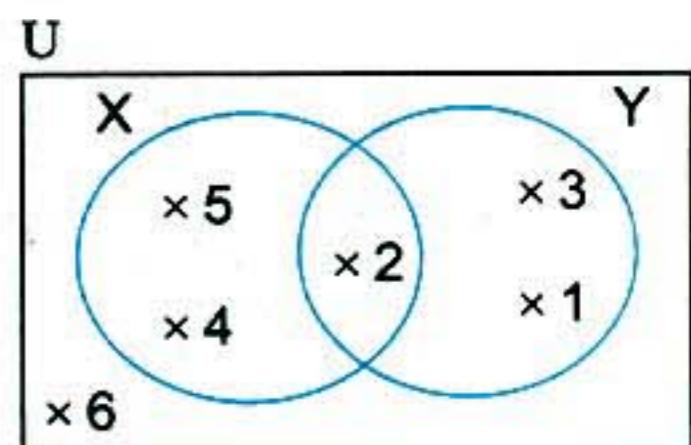
24) By using the opposite Venn diagram, find:

a)  $X \cup Y = \dots$

d)  $X \cap Y = \dots$

b)  $X - Y = \dots$

c)  $X' = \dots$



25) A box contains 10 cards numbered from 1 to 10, if a card is drawn randomly.

Calculate the probability that the drawn card carries :

a) An odd number .....

b) A number divisible by 3 .....

26) Draw the equilateral triangle ABC whose side length is 6 cm, then draw  $AD \perp BC$ .

The drawing



17

Beheira Governorate – Edko Educational Directorate Maths Supervision

**1 Choose the correct answer:**

1)  $\{4, 5\} \dots \{2, 3, 7\}$ . ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

2) The probability of the impossible event = ..... . (0 or 1 or 2 or 3)

3) The longest chord in the circle is called ..... .  
(radius or chord or diameter or tangent)

4)  $2.25 + 1.5 = \dots$ . (1.5 or 15 or 0.15 or 500)

5) If  $\{3, 4\} = \{x, 4\}$ , then  $x = \dots$ . (3 or 4 or 2 or 5)

6)  $3\frac{1}{2} + \frac{7}{12} = \dots$ . (6 or  $\frac{18}{3}$  or  $\frac{50}{12}$  or 4)

7)  $67.5 - 55.67 = \dots$ . (118.3 or 18.13 or 11.83 or 1.183)

8)  $\frac{1}{4} \times 4 = \dots$ . (2 or  $\frac{1}{4}$  or  $\frac{1}{2}$  or 1)

9) If  $X \subset Y$ , then  $X \cap Y = \dots$ . ( $X$  or  $Y$  or  $\emptyset$  or  $U$ )

10)  $\emptyset \dots X$ . ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

11) It is ..... that the sun rises from west. (possible or sure or impossible)

12) Any triangle has ..... altitudes. (0 or 1 or 2 or 3)

13)  $34 \dots \{3, 4\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

14) 43 days  $\simeq \dots$  weeks (4 or 6 or 5 or 7)

**2 Complete the following:**

15)  $3.75 \times 1000 = \dots$

16)  $426.305 + 67.19 = \dots \simeq \dots$ . (to the nearest  $\frac{1}{100}$ )

17) 5.4 tons = ..... kg

18)  $\{3, 2, 5\} \cap \{2, 5\} = \dots$ .

19)  $\{a, b, c\} - \{b, c\} = \dots$ .

20)  $6\frac{1}{4} + 12\frac{1}{2} = \dots$ .

21)  $3.7 \times 10 + 2.4 \times 100 = \dots$ .

22) To draw the circle of diameter length 12 cm, then the opening distance of the compasses should be ..... cm.

### **3 Answer the following questions:**

**23)** A bag contains 5 white balls, 9 red balls and 6 black balls, all the balls are identical and equal in size, if a ball is drawn randomly. What is the probability that the drawn ball is ..... ?

**a)** white                                   **b)** white or red

**24)** Draw the triangle ABC in which  $AB = 3 \text{ cm}$ ,  $BC = 4 \text{ cm}$ , and  $AC = 5 \text{ cm}$ .

**25) Arrange the following numbers descendingly:**

3.4 , 0.0333 , 0.3033 , 3.333 , 0.3303

The order is: ..... , ..... , ..... , ..... , .....

**26) If the universal set  $U =$  the set of all numbers less than 10,  $X = \{1, 3, 2, 6\}$ ,**

$Y = \{1, 5, 6, 4\}$ , draw Venn diagram, then find:

**1)  $X \cup Y$ .**  
**2)  $X - Y$ .**

## The drawing

## 18 Beheira Governorate – Damanhour Educational Directorate

## 1 Choose the correct answer:

1)  $\frac{1}{2} \dots \frac{1}{3}$  ( $>$  or  $<$  or  $=$  or  $\geq$ )

2)  $4\frac{1}{8} \times 2\frac{2}{3} = \dots$  (1 or 10 or 11 or 111)

3)  $3.75 \times 1000 = \dots$  (0.375 or 0.0375 or 3750 or 37.5)

4)  $5.45 + 0.5 = \dots$  (1.9 or 1.09 or 10.9 or 109)

5)  $9\frac{3}{25} \approx \dots$  (to the nearest tenth). (0.9 or 9.12 or 9.1 or 9)

6)  $6250 \div 125 = \dots$  (50 or 5 or 25 or 250)

7) 38 days  $\approx \dots$  (to the nearest week). (4 or 5 or 6 or 7)

8) If  $\{7, 10\} \subset \{10, x + 4\}$  the  $x = \dots$ . (3 or 4 or 5 or 6)

9)  $\{52\} \dots \{5, 2\}$ . ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

10) If  $Y = \{2, 3, 5\} \cap \{1, 3, 5\}$ , then  $\{2, 3\} \dots Y$ . ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

11) If  $a \in X$ , then  $a \dots X^c$ . ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

12) The number of subsets of A  $\{2, 3\} = \dots$ . (3 or 4 or 5 or 2)

13) The altitudes of the obtuse-angled triangle intersect ..... triangle.  
(outside or inside or at vertex or otherwise)

14) The length of the diameter of any circle ..... the length of any chord in it that does not pass through the center. ( $>$  or  $<$  or  $=$  or  $\geq$ )

## 2 Complete the following:

15)  $2\frac{1}{2} + 1\frac{1}{4} = \dots$ .

16) If  $\frac{x}{8} = \frac{15}{24}$ , then  $x = \dots$ .

17)  $33.28 + 36.274 = \dots \approx \dots$  (to the nearest  $\frac{1}{100}$ )

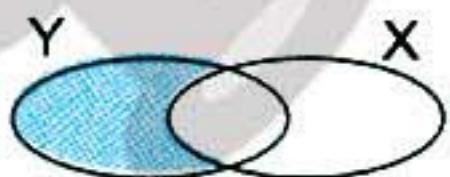
18) The shaded part represents ..... .

19) If  $X \subset Y$ , then  $X \cap Y = \dots$ .

20) A circle its radius = 1.5 cm, then its diameter = ..... cm

21) ABC is an equilateral triangle of perimeter 15 cm, then its side length = ..... cm

22) When tossing a coin once, the probability of appearing of a head = ..... .



## 3 Answer the following:

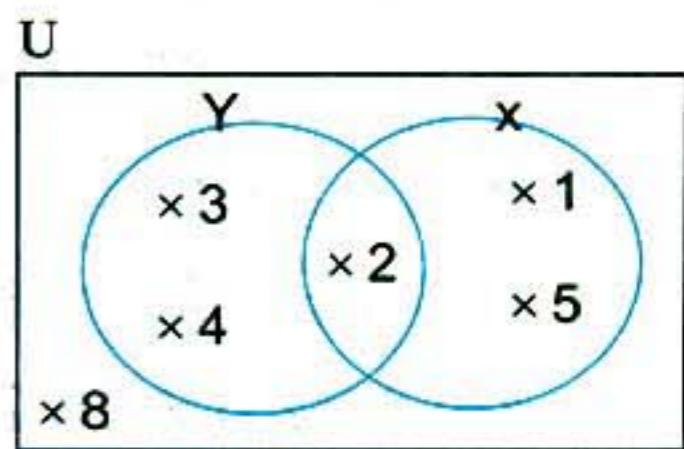
23) A car covers equal distances in equal times. If this car covered 24.72 km in 1 hour, how many kilometers does it cover in  $2\frac{1}{2}$  hour?

24) A box contains 10 cards numbered from 1 to 10, if a card is drawn randomly, calculate the probability that the drawn card carries:

- a) An odd number .
- b) An even prime number.
- c) A number divisible by 3.
- d) A number less than 6.

25) By using the opposite Venn diagram, find:

- a)  $X \cup Y = \dots$
- b)  $X \cap Y = \dots$
- c)  $(X^c)^c = \dots$
- d)  $X - Y = \dots$



26) Draw the triangle ABC where  $AB = 4$  cm,  $BC = 5$  cm and  $CA = 6$  cm, then draw its altitude from vertex A to base BC.

The drawing

## 19 Damietta Educational Directorate Maths Supervision D.O.L Schools

## 1 Choose the correct answer from that between the brackets:

1)  $22.4567 \approx \dots$  (to the nearest thousandth) (22.456 or 22.457 or 22.45 or 22.46)

2)  $43.398 \text{ m} = \dots \text{ cm}$ . (0.43398 or 4.3398 or 43.398 or 4339.8)

3) The set of prime numbers less than 20 is ..... set . (infinite or finite or equal or not equal)

4)  $2\frac{3}{4} \dots 2\frac{5}{7}$  (< or = or > or ≤)

5) If  $\frac{b}{3} = \frac{8}{12}$ , then b = ..... (2 or 3 or 4 or 5)

6)  $2\frac{2}{3} \times 4\frac{1}{8} = \dots$  (1 or 10 or 11 or 111)

7) The longest chord in a circle is called ..... . (radius or chord or diameter or otherwise)

8)  $\frac{1}{4} + 0.5 = \dots$  (0.005 or 0.05 or 0.5 or 5)

9)  $87.67 \div 1000 = \dots$  (876.7 or 8.767 or 0.8767 or 0.08767)

10)  $0.2 \times 0.2 \times 0.2 = \dots$  (0.008 or 0.08 or 0.2 or 0.8)

11)  $\{5\} \dots \{3, 4, 1\}$  (∈ or ∉ or ⊂ or ⊄)

12) If M is a circle whose diameter is 8 cm where MA = 7 cm, then the point A is located ..... the circle. (inside or outside or on or otherwise)

13) The number of subsets for the set {1, 2, 3} is ..... . (5 or 6 or 7 or 8)

14) {b, o, x} ..... the set of letters of word "box". (∈ or ∉ or = or ⊂)

## 2 Complete the following:

15) The probability of the impossible event = ..... .

16)  $\frac{1}{8} \approx \dots$  (to the nearest hundredth).

17) The greatest fraction from the following  $\frac{1}{2}, \frac{1}{4}, \frac{3}{8}$  is ..... .

18) The number of altitudes of the right-angled triangle = ..... .

19) If  $5 \in \{3, 4 + x\}$ , then  $x = \dots$  .

20)  $\{1, 2, 5\} - \{5\} = \dots$  .

21)  $3\frac{3}{4} + 1\frac{7}{8} = \dots$  .

22) To draw a circle of diameter length 10 cm, then the opening distance of the compasses = ..... .

## 3 Answer the following questions:

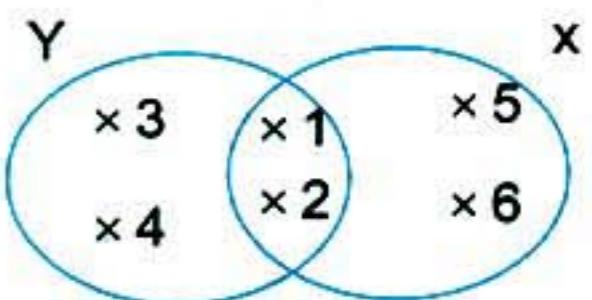
23) An owner of packing food factories wanted to pack 5175 kilograms of sugar equally in 225 packs. What is the weight of each pack?

.....

24 ) Look at the opposite Venn diagram, then find the following:

a)  $X \cup Y = \dots$

b)  $X \cap Y = \dots$



25) A bag contains 4 red balls, 6 yellow balls and 5 green balls, if one ball is chosen randomly. What is the probability that the chosen ball is ..... ?

a) green .....

b) red or yellow .....

26) Draw the triangle ABC where:  $AB = BC = 5 \text{ cm}$  and  $AC = 8 \text{ cm}$ , then draw  $\overline{BD} \perp \overline{AC}$  that intersects  $\overline{AC}$  at D.

The drawing

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20

**Sharkia Governorate – Dirab Negm Educational Zone**

### 1 Choose the correct answer.

1)  $\frac{1}{2}$  .....  $\frac{5}{8}$ . ( $<$  or  $>$  or  $=$ )

2)  $8.4 \times 100 =$  ..... (84 or 0.084 or 840)

3) If  $3 \in \{1 + x, 5\}$ , then  $x =$  ..... (1 or 2 or 3)

4)  $314 \text{ cm} =$  ..... dm. (31.4 or 3.14 or 3140)

5)  $7.2 \times 0.2$  ..... 1.44 ( $<$  or  $>$  or  $=$ )

6)  $\frac{1}{4} \div 0.5 =$  ..... (0.5 or 0.25 or 5)

7)  $19.6 \simeq$  ..... (to the nearest units) (110 or 29 or 20)

## 2 Choose the correct answer:

8)  $X \cap X' = \dots$ . ( $X$  or  $U$  or  $\emptyset$ )

9)  $\{2, 5\} \cap \{25\} = \dots$  ( $\emptyset$  or  $\{2, 5\}$  or  $\{25\}$ )

10)  $3\frac{1}{2} \dots 3.05$  ( $<$  or  $>$  or  $=$ )

11)  $\{7, 8\} - \{2, 8\} = \dots$  ( $\{2, 7\}$  or  $\{8\}$  or  $\{7\}$ )

12) The longest chord in a circle is called ..... (radius or diameter or side)

13) The number of altitude of any triangle = ..... (1 or 2 or 3)

14)  $\emptyset \dots \{3, 9\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

### 3 Complete:

15)  $40$  days  $\approx$  ..... weeks

16)  $3\frac{1}{2} \div \frac{1}{12} =$  .....

17)  $2.7629 \approx$  ..... (to the nearest thousandths)

18) If  $\frac{x}{3} = \frac{10}{15}$ , then  $x =$  .....

19) The shaded part of  represents .....

20) The midpoint of any diameter in a circle is called ..... of a circle.

21) The length of diameter in a circle whose radius is  $0.5$  cm is .....

22) When tossing a coin once, then the probability of appearing of a tail = .....

## 4 Answer the following:

23) If the area of rectangle is  $10.25 \text{ m}^2$  and its length is  $4.1 \text{ m}$ , find its width :

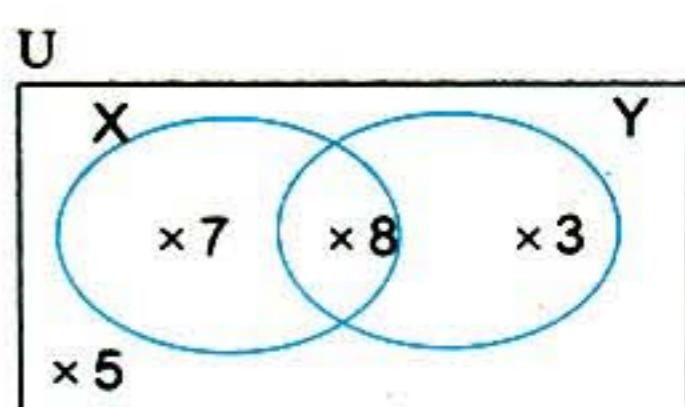
The width = .....

.....  
.....  
.....

24) Look at the opposite Venn diagram, then complete:

a)  $X \cup Y = \dots$

b)  $X - Y = \dots$



25) A card has been randomly drawn out of 9 cards numbered from 1 to 9. Find the probability of getting.

a) An even number

b) A prime number

26) Draw the triangle ABC in which  $BC = 6 \text{ cm}$ ,  $AB = AC = 5 \text{ cm}$ , then draw  $\overline{AD}$  perpendicular to  $\overline{BC}$ . Find by measuring the length of  $\overline{AD}$ .

.....  
.....  
.....

## 21 Ismailia Governorate – Directorate of Education Maths Supervision

## 1 Choose the correct answer:

1)  $\{4\} \dots \{1, 3, 7\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

2)  $A \cap A' = \dots$  ( $\emptyset$  or  $A$  or  $A'$  or  $U$ )

3) In an experiment of tossing a die once, then the probability of appearing of an even number in the upper face is ..... ( $\frac{1}{3}$  or  $\frac{1}{2}$  or  $\frac{4}{6}$  or  $\frac{1}{6}$ )

4) Any chord passing through the center of the circle is called ..... (diameter or radius or straight line or center)

5)  $3.245 \approx \dots$  (to the nearest hundredth) (3.26 or 3.24 or 3.25 or 3.255)

6)  $\frac{2}{5} \times \dots = 1$  ( $\frac{2}{5}$  or  $1\frac{1}{2}$  or  $2\frac{1}{2}$  or  $\frac{5}{2}$ )

7) Any triangle has ..... altitude(s). (0 or 1 or 2 or 3)

8)  $7.56 \times 100 = \dots$  (75.6 or 756 or 75600 or 7560)

9) If  $\{5, 7\} = \{m + 1, 7\}$ , then  $m = \dots$  (2 or 3 or 4 or 5)

10) 5.4 tons = ..... kilograms. (54 or 540 or 5400 or 54000)

11) If  $A \subset B$ , then  $A \cup B = \dots$  (A or B or  $A'$  or  $B'$ )

12)  $\frac{4}{3} \times \frac{1}{2} = \dots$  ( $\frac{1}{2}$  or  $\frac{3}{2}$  or  $\frac{2}{3}$  or 1)

13)  $\emptyset \cup A = \dots$  ( $\emptyset$  or  $A$  or  $A'$  or  $U$ )

14)  $2.25 \times 4 = \dots$  (88.5 or 520 or 9.85 or 9)

## 2 Complete:

15) The probability of the impossible event = ..... .

16) To draw a circle of diameter 8 cm we open the compasses ..... cm.

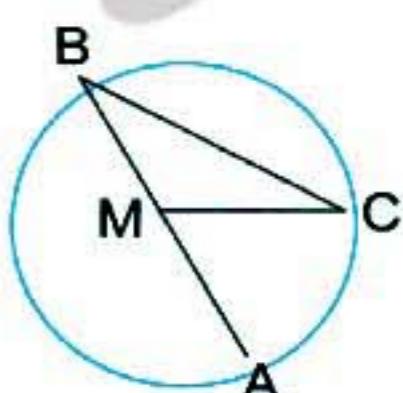
17) The number  $84.35 \approx 84.4$  to the nearest ..... .

18)  $\{3, 4, 7\} \cap \{3, 5, 7, 9\} = \dots$  .

## 19) Using the opposite figure, complete:

$\overline{MC}$  is a ..... in the circle M.

20)  $3\frac{1}{2} \div \frac{7}{4} = \dots$  .



21) If  $X = \{1, 3, 4, 6\}$ ,  $Y = \{2, 4, 6, 8\}$ , then  $X - Y = \dots$

22) If the price of one box of crayon is 6.75 L.E. then the price of 10 boxes of crayons = L.E. ....

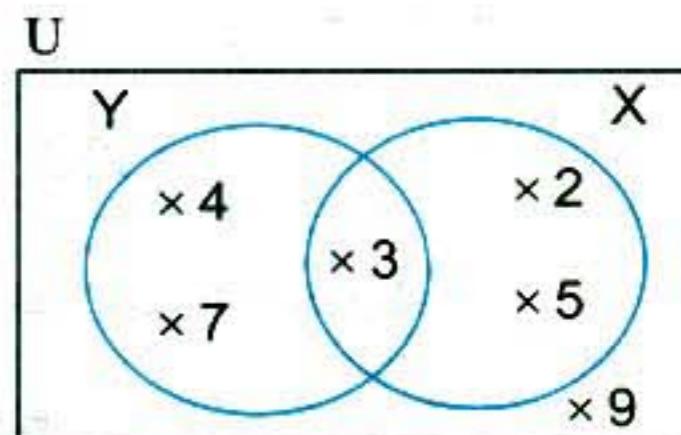
### 3 Find the result:

23)  $95.236 - 76.46 = \dots \approx \dots$  to nearest hundredth.

24) By using the opposite Venn diagram, find:

a)  $X \cup Y = \dots$

b)  $X' = \dots$



25) A bag contains 3 white balls, 7 red balls and 5 yellow balls, all of them have the same size. If we choose a ball randomly, then the probability of getting.

a) Yellow ball = .....

b) Not yellow ball = .....

26) Draw the equilateral triangle whose side length = 5 cm , then draw  $\overline{AD} \perp \overline{BC}$ .

(Don't remove the arcs.)

## 22 Suez Governorate – South Directorate Maths Inspectorate

## 1 Choose the correct answer:

1)  $55.241 \times 100 \dots 552.41 \times 10.$  ( $>$  or  $=$  or  $<$ )

2)  $3\frac{1}{2} + \frac{7}{12} = \dots .$  (6 or  $\frac{49}{24}$  or 4)

3) 3 ..... {303.13}. ( $\in$  or  $\subset$  or  $\notin$ )

4) Any triangle has ..... altitude(s). (1 or 2 or 3)

5) The longest chord in a circle is called ..... (diameter or radius or chord)

6) If  $\{x + 1, 5\} = \{6, 5\}$  then  $x = \dots .$  (6 or 1 or 5)

7)  $85.67 - 67.5 = \dots .$  (18.17 or 22.2 or 22.17)

8)  $267.532 \approx \dots$  hundredths. (277 or 276.53 or 267.5)

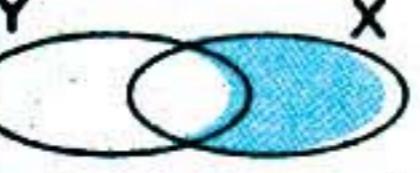
9) If  $X \subset Y$ , then  $X \cup Y = \dots .$  ( $X$  or  $Y$  or  $\emptyset$ )

10) The number of the subsets of  $\{4, 5\}$  equals ..... (3 or 4 or 5)

11) The probability of the sure event is ..... ( $0$  or  $\frac{1}{2}$  or 1)

12)  $225 + 25 = 2.25 + \dots .$  (0.25 or 2.5 or 25)

13)  $572.4 \text{ cm} \approx \dots$  meters. (572 or 6 or 60)

14) The shaded part of  represents ..... ( $X \cap Y$  or  $Y - X$  or  $X - Y$ )

## 2 Complete the following:

15)  $3.75 \times 1000 = \dots .$

16)  $\Delta ABC$  is an equilateral of side length 6 cm, its perimeter = ..... cm.

17)  $\{3, 2, 4\} \cap \{13, 4, 20\} = \dots .$

18) If  $U = \{1, 2, 3, 4, 5\}$ ,  $A = \{2, 4\}$ , then  $A' = \dots .$

19) Half of year = ..... months.

20)  $39.76 \approx \dots$  to the nearest units.

21) If the length of the longest chord in the circle is 10 cm, then its radius = ..... cm.

22) As tossing a coin once, then the probability of appearing of a head is ..... .

## 3 Find the result:

23) Arrange in ascending order:

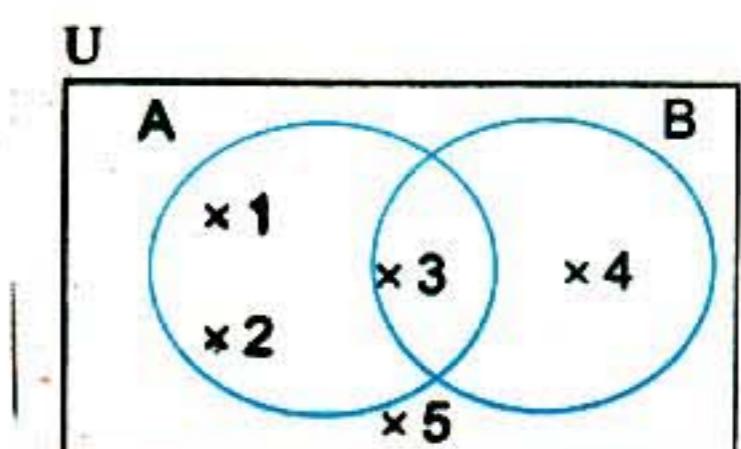
$$3\frac{1}{4}, 3.3, 3.125, 3\frac{1}{2}$$

The order is: ..... , ..... , ..... , .....

24) In the opposite figure, find:

a)  $A \cap B = \dots$

b)  $(A - B) = \dots$



25) As throwing a fair die once find the probability of:

a) appearing of a number greater than 6.

b) appearing of a number 5.

26) Draw  $\Delta ABC$  in which  $AB = 7 \text{ cm}$ ,  $BC = 6 \text{ cm}$  and  $AC = 5 \text{ cm}$ 

The drawing



## 23 South Sinai Governorate – Educational Directorate – Tur Sinai Educational Zone

## 1 Choose the correct answer:

1)  $98.7 \times 100 = \dots$  (9.87 or 987 or 9870 or 0.987)

2)  $736.592 \approx 736.59$  approximated to the nearest ..... (ten thousandths or tenths or hundredths or thousandths)

3) If  $\{2, 3, 4\} = \{3, 4, x\}$  then  $x = \dots$  (1 or 2 or 3 or 4)

4) Any chord that passes through the center of the circle is called ..... (straight line or diameter or radius or ray)

5)  $11664 \div 216 = \dots$  (50 or 54 or 58 or 62)

6)  $\{5\} - \{1, 2, 5\} = \dots$  ( $\{5\}$  or  $\{1\}$  or  $\{1, 2\}$  or  $\emptyset$ )

7)  $37.4289 - 14.081 \approx \dots$  to the nearest thousandths. (23.349 or 23.350 or 23.348 or 23.248)

8) If  $X \subset Y$ , then  $X \cap Y = \dots$  ( $X$  or  $\{0\}$  or  $Y$  or  $\emptyset$ )

9) The number of altitudes of any triangle is ..... (1 or 2 or 3 or 4)

10)  $\{1, 7\} \dots \{0, 1, 2, 3, 4, \dots\}$ . ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

11)  $75.3 \div 100 = \dots$  (7530 or 753 or 7.53 or 0.753)

12)  $\frac{1}{2} \dots \frac{1}{3}$ . ( $\leq$  or  $<$  or  $>$  or  $=$ )

13)  $5.45 \div 0.5 = \dots$  (1.9 or 19 or 10.9 or 1.09)

14) The number of sets that includes subsets of the set  $\{5\}$  is ..... (0 or 1 or 2 or 3)

## 2 Complete the following:

15)  $2.4 \text{ dm} = \dots \text{ cm}$

16)  $\frac{1}{3} \times \frac{2}{5} = \dots$

17) A circle whose diameter length is 4 cm, then the length of its radius is ..... cm.

18)  $\{1, 2, 4\} - \{2, 4, 6\} = \dots$

19)  $\frac{b}{8} = \frac{15}{24}$ , then  $b = \dots$ .

20) The longest chord in a circle is called ..... .

21) If  $X = \{1, 2, 5, 7\}$ ,  $Y = \{1, 5, 3\}$ , then  $X \cap Y = \dots$ .

22) The probability of the certain event = ..... .

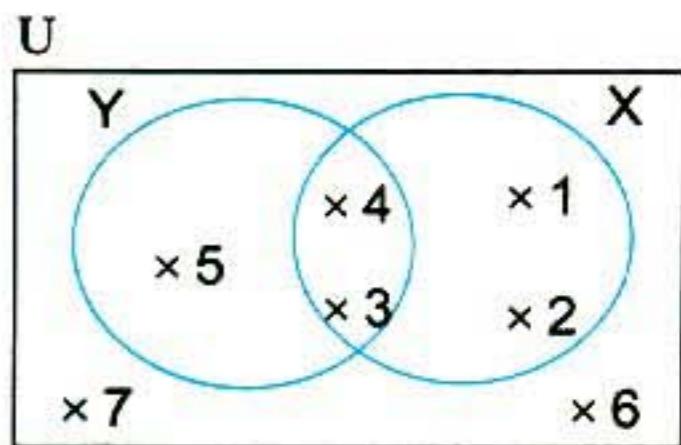
## 3 Answer the following questions:

23) If the price of one meter of cloth is 6.45 pounds, then what is the price of 2.4 meters of the same cloth?

.....  
.....

24) By using the following Venn diagram, find the following sets by listing method:

a)  $X \cap Y = \dots$   
 b)  $Y' = \dots$



25) Draw the triangle XYZ in which  $XY = YZ = 7\text{cm}$ ,  $XZ = 4\text{ cm}$

.....  
.....

26) A bag contains 5 white balls, 9 red balls, and 6 black balls all of them are identical, a ball is drawn blindly, then what is the probability that the drawn ball is a white?

.....  
.....

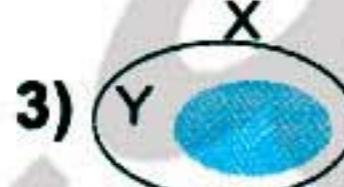
## Worksheets &amp; Exams

24 Beni Suef Governorate – Directorate of Education – Directorate of Official Lang. Schools

## 1 Choose the correct answer:

1) If  $\{7, 10\} \subset \{10, x + 4\}$ , then  $x = \dots$ . (3 or 4 or 5 or 6)

2)  $\{52\} \dots \{5, 2\}$ . ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

3)  The shaded part is ..... ( $X \cap Y$  or  $X \cup Y$  or  $Y - X$  or  $X \subset Y$ )

4)  $Y - Y = \dots$  ( $\emptyset$  or zero or  $\{0\}$  or  $\{1\}$ )

5)  $\emptyset \dots \{9\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

6) The longest chord in the circle is called ..... (diameter or radius or angle or side)

7) The number of altitudes in the acute-angled triangle = ..... (1 or 2 or 3 or 4)

8)  $\frac{1}{4} = \dots$  (0.25 or 0.125 or 0.75 or 0.175)

9)  $9\frac{3}{4} \approx \dots$  to the nearest tenth. (9.8 or 9.11 or 9 or 0.9)

10)  $3.75 \times 1000 = \dots$  (3.75 or 375 or 0.0375 or 3750)

11)  $15.45 + 10 = \dots$  (15.45 or 1.545 or 0.01545 or 0.1545)

12)  $0.46 + 4.6 \dots 0.01$  ( $<$  or  $>$  or  $=$ )

13)  $\frac{3}{5} \dots \frac{6}{10}$  ( $<$  or  $>$  or  $=$ )

14)  $7.3 \text{ km} = \dots \text{ m}$  (7.3 or 73 or 730 or 7300)

## 2 Complete the following:

15) The midpoint of any diameter in a circle is ..... of the circle.

16) The circle its radius = 2 cm, then its diameter = ..... cm.

17)  $\{2, 5\} \cup \{2, 3\} = \dots$

18) The probability of the impossible event = .....

19) The number  $4.6798 \approx \dots$  to the nearest thousandth.

20) 22 days  $\approx \dots$  weeks

21)  $2.4 \times 1.1 = \dots \approx \dots$  to the nearest tenth.

22) If  $6 \in \{2, x\}$  then,  $x = \dots$ .

## 3 Answer the following question:

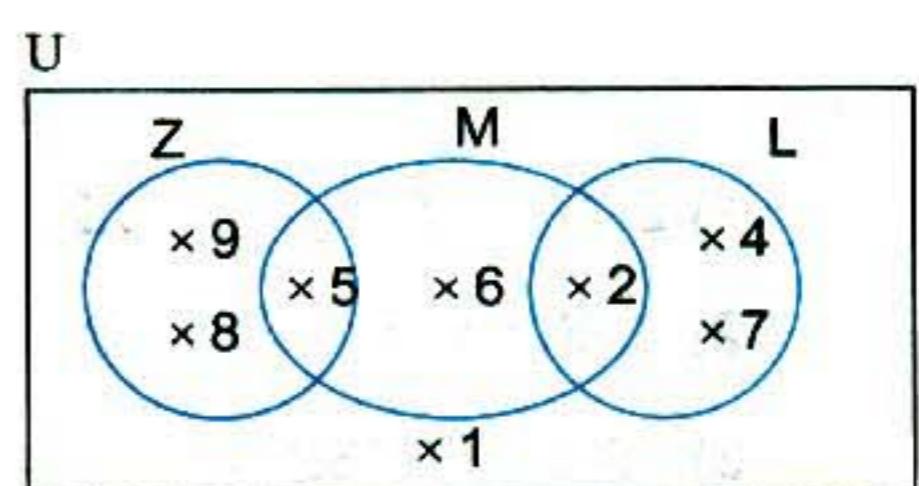
23) In the opposite Venn diagram find by listing method:

a)  $Z \cap L = \dots$

b)  $M \cup L = \dots$

c)  $L - M = \dots$

d)  $M' = \dots$

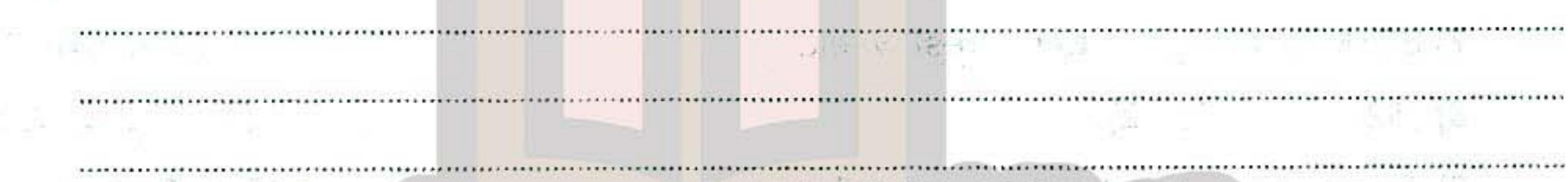


24) Arrange the following numbers in descending order.

$$\frac{1}{9}, \frac{1}{6}, \frac{1}{3}, \frac{1}{7}$$

The order is: ..., ..., ..., ...

25) Draw a circle whose center is M and radius = 2 cm



26) From the table, find the probability that a pupil plays basketball

Game	Football	Basketball	Handball
Number of pupils	50	40	10



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